

Resona I9 series

Diagnostic Ultrasound System

Datasheet

Release 1.2.0 (Rev23361)

Innovation, in every facet



Powered by **ZST+**

1. System Overview

Powered by the most revolutionary
ZONE Sonography® Technology, I9's
new ZST+ platform brings the
ultrasound image quality to a higher
level by zone acquisition and channel
data processing.

1.1 Advantages of ZST+ platform

- Advanced Acoustic Acquisition
- Dynamic Pixel Focusing (DPF)
- Sound Speed Compensation (SSC)
- Total Recall Imaging (TRI)
- Powerful Processing Architecture
- Enhanced Channel Data Processing
- ZONE Sonography® Technology
- Up to 8,257,536 channels

1.2 Application

- Abdomen
- Obstetrics
- Gynecology
- Cardiology
- Small parts

- Urology
- Vascular
- Pediatrics
- Nerve
- Emergency & Critical
- Pelvic Floor
- Others

1.3 Transducer types

- Curved array transducer
- Linear array transducer
- Phased array transducer
- 4D Volume transducer
- Pencil transducer
- Bi-Plane transducer

1.4 Advanced Imaging technics

- THI (Tissue Harmonic Imaging) and
PSH™ (Phase Shift Harmonic
Imaging)
- iBeam™ (Spatial Compound
Imaging)
- iClear™ (Speckle Suppression
Imaging)

- iClear⁺
- iTouchTM (Auto Image Optimization)
- Echo BoostTM
- Zoom/iZoom (Full Screen Zoom)
- FCI (Frequency Compound Imaging)
- B steer
- ExFOV (Extended Field of View)
- HD Scope
- Smart Track
- HR FlowTM (High Resolution Flow)
- Glazing Flow
- Free Xros CMTM (Curved Anatomical M-mode)

1.6 Function Modes

1.5 Imaging modes

- B-Mode
- M-Mode/Color M-mode
- Color Doppler Imaging
- Power Doppler Imaging/Directional PDI
- Pulsed Wave Doppler
- Continuous Wave Doppler
- Free Xros MTM (Anatomical M-mode)
- iScapeTM View (Panoramic Imaging)
- TDI (Include TVI, TVD, TVM, TEI)
- TDI QA (TDI Quantitative Analysis)
- UWN+ (Ultra Wideband Non-linear Plus) Contrast ImagingTM
- Contrast Imaging QA (Quantitative Analysis)
- LVO (Left Ventricular Opacification)
- Low MI Contrast
- Volume CEUS
- Natural Touch Elastography Imaging
- STE Imaging (Sound Touch Elastography)
- STQ Imaging (Sound Touch Quantification)
- Endocavity STE
- High frame rate STE
- Stress Echo
- TTQA (Tissue Tracking Quantitative

- Analysis)
 - FH TTQA
 - Smart 3D™ (Freehand 3D)
 - Real-time 4D
 - iPage+ (Multi-Slice Imaging)
 - STIC (Spatial-Temporal Image Correlation)
 - SCV+ (Slice Contrast View)
 - Smart-V™ (Smart Volume)
 - Smart V Trace
 - Color 3D
 - Niche
 - iLive
 - Smart Planes CNS
 - Smart Planes FH
 - Smart Face
 - Smart ICV
 - Smart Scene 3D
 - Ultrasound Fusion Imaging
 - Endocavity Fusion Imaging
 - Fusion RESP
 - V Flow (Vector Flow)
- DICOM
- Clinical Measurement Package
- Smart Pelvic Floor
- Smart OB™ (Auto OB measurement)
- Smart NT™ (Auto NT measurement)
- Smart Fetal HR (Fetal Heart Rate)
- Smart FLC
- IVF
- IMT
- RIMT (RF-Data based IMT)
- Auto EF
- R-VQS (RF-Data based Quantitative Analysis on Vessel Stiffness)
- Smart Thyroid
- Smart Breast
- Smart Hip
- Smart HRI
- Smart Caliper
- Smart Trace
- CPP (Color Pixel Percentage)

- V-Mapping
- iNeedle™ (Needle Visualization Enhancement)
- ECG function
- Touch gestures
- Anti-virus software: McAfee, Windows Defender
- iVocal

1.7 Other features

- Ultrasound gel
- Ultrasound gel warmer
- Built-in wireless adapter
- Replaceable battery assembly
- Central brake
- Probe adapter
- DVD assembly
- Wipes box bracket
- DVR
- Ambient light
- iStorage
- iWorks™ (Auto Workflow Protocol)
- MedSight
- MedTouch
- UltraAssist (Off-line software)
- UltraView™ (Off-line analysis software)

1.8 Language support

- Software: English, Chinese, German, Spanish, French, Italian, Portuguese, Russian, Czech, Polish, Turkish, Finnish, Danish, Icelandic, Norwegian, Swedish, Hungarian, Serbian, Dutch, Lithuanian, Greek, Thai
- Keyboard input: English, Chinese, German, Spanish, French, Italian, Portuguese, Russian, Czech, Polish, Icelandic, Norwegian, Swedish, Finnish, Turkish, Danish, Hungarian, Serbian
- User manual: English, Chinese, German, Spanish, French, Italian, Portuguese, Russian, Polish, Turkish, Serbian

- Small keyboard: English, Germany, Russian, Spanish, French

2 Physical Specification

2.1 Dimension and weight

- The control panel and the monitor are in the lowest position.
- Configured with floating support arm and 23.8 inch monitor
 - Depth: $1020\pm 20\text{mm}$;
 - Width: $550\pm 10\text{mm}$;
 - Height: $1000\pm 20\text{mm}$
- Weight: $105\text{kg}\pm 4\text{kg}$ (net weight, standard configuration but not including the probe)

2.2 Audio speakers

Stereo audio speakers

2.3 Dual-wing floating support arm

- Rotate angle: 90 ± 5 degrees (to the left); 150 ± 5 degrees (to the right)
- Tilt angle (when positioned vertically): 20 ± 5 degrees (backward); 85 ± 5 degrees (forward)

- From front to back: $300\pm 20\text{mm}$
- From bottom to top: $150\pm 20\text{mm}$

2.4 Wheels

- Diameter: 125mm
- When the central brake is configured: Central brake for total lock and break
- When the central brake is not configured: 4 Castors for total lock and break

2.5 Transducer port and holder

- Transducer ports with dust prevention: 5 active ports and 1 pencil probe port
- Support hot plug with active indicator lights
- Transducer holder: 5, plus 1 dedicated endocavity transducer holder and 1 dedicated pencil transducer holder

2.6 Electrical power

- Voltage: 100-240V~

- Frequency: 50/60 Hz
- Power consumption: 650 VA

2.7 Operating Environment

- Ambient temperature: 0-40°C
- Relative humidity: 20%-85% (no condensation)
- Atmospheric pressure: 700hPa-1060hPa

2.8 Storage & Transportation Environment

- Ambient temperature: -20-55 °C
- Relative humidity: 20%-95% (no condensation)
- Atmospheric pressure: 700hPa-1060hPa

2.9 System Noise

- $\leq 26\text{dB}$ @25°C

3 User Interface

3.1 Floating control panel

- Brightness adjustable for the backlight of the whole control panel
- Full-sized, backlit QWERTY keyboard

- iConsole: intelligent control panel for clinical-exam specific layout and adaptive adjustment: 6

programmable E-ink keys for dynamic display of user-defined functions

- Automatic light indication for residual battery power

- Full-space floating control panel adjustment and can be fixed at any position (when centered in the trackball):

-Left/right rotation: 180 ± 5 degrees (90 degree for both left and right)

-Left/right adjustment:

1100mm $\pm$ 50mm (550mm for both left and right)

-Down/up adjustment: 300 $\pm$ 20mm

-Front/back adjustment:

350 $\pm$ 20mm

3.2 Monitor

- 23.8-inch bezel-less LED monitor

with high resolution

- Resolution: 1920x1080
- Viewing angle: 178 degrees
- Digital on screen display of brightness and contrast controls
- Automatic adjustment of monitor light with the changing environment
- Automatic LED brightness
- Tilt/Rotate independent adjustment
- Tilt angle range: 105 degrees
- Rotate angle range: 240 degrees

3.3 Touch screen

- 15.6-inch high sensitivity anti-glare color touch screen
- Resolution: 1920*1080
- Digital brightness and contrast adjustment through preset
- Angle adjustable range: 40 degrees
- Viewing angle: 170 degrees
- Support touch screen gestures
- Support either hand writing or with gloves on

- Editable buttons: long press to add, delete or move buttons
- Moveable 3D/4D tabs
- Clinical scenario-based 3D/4D user interface
- Digital TGC
- Short-cut switch of latest used probe & exams

3.4 Touch gestures

- Swipe down/up: display/remove projected image on touch screen
- Swipe horizontally: page up/down or review images/cine loops one by one
- Swipe from left edge to right: display hidden menu on projected image.
- Image parameter adjustment.
- Measurement on projected image on touch screen
- Zoom in/out the projected image on touch screen

- Rotate or erase on projected 3D/4D image on touch screen
- 8 user defined gestures using two fingers for more functions, such as freeze, print, activate specific imaging modes, measurements, and some other special functions.
- More than 232 bodymarks for versatile application
- User customizable

4 Imaging Parameters

4.1 B-mode

3.5 System boot-up

- Boot-up from shut-down: <30 sec
- Boot-up from stand-by: <5 sec
- Shut-down: <30 sec

3.6 Comments

- Supports text input and arrow
- Voice annotation: record voice as annotation for images and cine
- Support freehand marking on touch screen
- Adjustable text size and arrow size
- Supports home position
- Covers various application
- User customizable

3.7 Bodymark

- Display formats:
 - Single(B)
 - Dual (B+B), support by B/ M/ Color/ Power/ PW/ CW/ Color M mode
 - Quad (4B), support by B/ Color/ Power
- iClear™/iClear+: Off, 7 steps
- iBeam™: Off, 3 steps
- iTouch™: on/off
- FCI (Frequency Compound Imaging)
- Dual Live: On/off
- Image quality:
 - Pen/Gen/Res/HPen/HGen/HRes/HGen-FFR/HRes-FFR (dependent on transducer)
- B steer: 5 levels, available on linear

- transducers
- ExFOV: off, 1-2 (dependent on transducer)
 - Depth: 30 levels, 1.5-40cm
 - Frame rate (max): 1701f/s
 - Acoustic output power: dependent on transducer
 - TGC/LGC: 8 segments on touch screen
 - Dynamic range: 30-260 (dependent on transducer)
 - Gain: 0-100, 1/step
 - FOV: continuously adjustable
 - Line density: L/M/H/UH
 - Persistence: 0-7 levels
 - Horizontal Scale: on/off
 - L/R flip and U/D flip: on/off
 - Rotation: 0°, 90°, 180°, 270°
 - TSI: general/muscle/fluid/fat
 - Gray Map: 8 types
 - Tint map: off, 8 types
 - Echo Boost: On/Off
 - Smooth: 0-6 levels
 - HD Scope: off, 1-3 levels
 - SSC (Sound Speed Compensation): On/Off
 - Free view: -45°~45°, 5°/step
 - Dehaze: 0-30 levels
 - Ref Lines: on/off (under GYN and Pelvic Floor exam mode and using intracavity probe)
 - V 1:1: on/off (available on linear probe under dual-split mode)
 - ExtImage: On/Off
 - Auto Merge: On/Off
 - ZoneVue
 - Edge enhance: 0-6, 1/step
- #### 4.2 THI and PSH™
- Patent PSH™ technology, obtains purer harmonic, better contrast resolution, higher SNR, exceptional high frequency harmonic
 - iClear™ available
 - Image quality: HPen/HGen/HRes or

HPen/ HPen-FFR/HGen/HRes/HRes-

1 level (HR Flow)

FFR (depends on transducers)

- Echo Boost™: On/Off

- Max velocity: 146.5cm/s
- Steer: available on linear transducer

4.3 M-mode

- Display formats: V2:3, V3:2, V3:1, H2:3, Full (V: vertical, H: horizontal)
- Color M-mode available
- Acoustic output power: same as B
- Depth: same as B
- Dynamic range: 30-180, 5/step
- Gain: 0-100, 1/step
- M sweep speed: 6 steps
- M soften: 0-4, 1/ step
- Tint map: off, 8 types
- Gray Map: 8 types
- Edge enhancement: 0-3, 1/ step

- Max frame rate: 529f/s
- Acoustic output power: same as B mode
- Gain: 0-100, 2/step
- ROI size/position: adjustable
- Scale: max. 30 steps
- Baseline: -8 – 8, 1/step
- Wall filter: 8 steps, 5-433Hz
- PRF: 0.1-12.6kHz
- Packet size: 0-3, 1/ step
- Flow state: L/M/H
- Smooth: 0-6, 1/ step
- B/C align: On/Off

4.4 Color Doppler Imaging

- Dual live: On/Off
- HR Flow™: High Resolution Flow provides better image quality and flow sensitivity
- Image quality: Pen/Gen/Res (color),

- Priority: 0%-100%, 1%/step
- Color map: V0-V10; VV0-VV9
- Invert: On/Off
- Auto Invert: On/Off
- Persistence: 0-6, 1/ step
- Velocity tag: On/Off

- Line density: L/M/H/UH
- iTouch™: on/off
- Smart track: On/Off
- Glazing Flow: On/Off, L/M/H

4.5 Power Doppler Imaging

- Dual live: On/Off
- HR Flow™: High Resolution Flow provides better image quality and sensitivity
- Support directional power Doppler
- Image quality: Pen/Gen/Res (Power), 1 level (HR Flow)
- Acoustic output power: same as B
- Dynamic range: 10-70, 5/step
- Gain: 0-100, 2/step
- ROI size/position: adjustable
- Steer: available on linear transducers)
- Scale: max. 30 steps
- Wall filter: 8 steps
- PRF: max.12.6kHz
- Packet size: 0-3, 1/ step

- Flow state: L/M/H
- Smooth: 0-6, 1/ step
- B/C align: On/Off
- Priority: 0%-100%, 1%/step
- Color map: 4 types
- Directional color map: 4 types
- Persistence: 0-6, 1/step
- Line density: L/M/H/UH
- Invert: On/Off
- iTouch™: On/Off
- Smart track: On/Off
- Glazing Flow: On/Off, L/M/H

4.6 PW/CW Mode

- Display formats: V2:3, V3:2, V3:1, H2:3, Full, Duplex/Triplex (PW only) (V: vertical, H: horizontal)
- Image quality: Pen/Gen/Res
- PW velocity: max. 8.681m/s
min. 2.03cm/s
- CW velocity: max. 39m/s
min. 5.34cm/s
- Sample volume size: 0.5-30mm

- (PW only)
 - Sample gate depth: continuously adjustable
 - Baseline: 9 steps
 - PW Steer: available on linear transducer
 - Volume: 0%-100%, 2%/step
 - PW PRF: 1.0-23.1kHz
 - CW PRF: 0.3-104.0kHz
 - Gain: 0-100, 2/step
 - Dynamic range: 24-72, 2/step
 - Sweep speed: 6 steps
 - Wall Filter: 0 ~ 9 steps
 - Invert: On/Off
 - Auto invert: On/Off
 - Angle correction: -89~89 degrees, 1/step
 - Quick angle: 0, -60, 60 degrees
 - Gray map: 10 types
 - Tint map: Off; 8 types
 - Time/frequency resolution: 0-6, 1/step
 - HPRF: On/Off
 - Auto calc: On/Off
 - Auto calc cycle: 1, 2, 3, 4, 5
 - Auto Calc Loop
 - Trace Sensitivity: 0-5, 1/step
 - Trace Smooth: Off, 1-4, 1/step
 - Trace area: Above, Below, All
- #### 4.7 Free Xros M™
- Display formats: V2:3, V3:2, V3:1, H2:3 (V: vertical, H: horizontal)
 - Color Free Xros M available
 - Up to 3 lines
 - Display all lines
 - Sweep speed: 6 steps
 - M Tint map: Off, 8 types
 - Gray Map: 8 types
- #### 4.8 Free Xros CM™
- Only available in TDI mode
 - Display formats: V2:3, V3:2, V3:1, H2:3 (V: vertical, H: horizontal)
 - Sweep speed: 6 steps
 - Tint map: Off; 8 types

- Gray Map: 8 types
- Edit, Undo, Delete function for curved line

4.9 iBeam™

- Spatial compound imaging
- Off, 1-3, 1/step

4.10 iClear™

- Speckle suppression imaging
- Available on B, 3D, 4D mode

4.11 iTouch™

- Auto image optimization
- B-mode: gain, TGC, dehaze
- Color: gain, color box position
- Power: gain
- PW: gain, scale, PRF, WF, SV size, SV position, steering angle
- Contrast imaging: gain

4.12 Echo Boost™

- Available in cardiac exam mode when using a phased array probe
- Improve the homogeneity through the whole field of view

- Better noise control in cardiac chambers and muscles

4.13 Zoom

- Zoom: Spot zoom (write zoom), Pan zoom (read zoom) 0.8x-10x
- iZoom: convertible 3 steps; normal image, zoom standard area, zoom only image area

4.14 QSave

- Quickly save image parameter setting after image adjustment done
- Support Save, Create, Restore
- IP (Image Process) Preset Manager
- Support save, create, restore or delete IPs
- Quickly switch to different exam modes without returning to B mode
- A default set of image parameters under each IP are provided for different exam modes

- Only image parameters are switched while measurements, comments, and bodymarks remain the same
- 3D/4D Preset Manager
 - The scenarios and subpresets can be renamed, restored, deleted, added, set to active, or moved
 - Show scenario and subpreset parameters
 - Provide multiple groups of preset 3D/4D parameters based on different application scenarios to quickly obtain expected image effect
- PRF: 0.4-14.9kHz
- Acoustic output power: same as B
- Gain: 0-100, 2/step
- Dynamic range: 10-70, 5/step (TEI only)
- ROI size/position: adjustable
- Scale: max. 30 steps
- Baseline: -8 – 8, 1/step (TVI only)
- Wall filter: 8 steps
- Packet size: 0-3, 1/step
- Flow state: L/M/H
- Smooth: 0-6, 1/ step
- B/C align: On/Off
- Priority: 0%-100%, 1%/step
- Color map: 10 types (TVI), 8 types (TEI)

4.15 Tissue Velocity/Energy Imaging

(included in TDI option)

- Available on phased array, and SC6-1s, SC8-2s, SP5-1s, and P7-3Ts
- Dual live: side by side displays B and B+TVI
- Max frame rate: 3175 f/s

4.16 Tissue Velocity Doppler (included in

- TDI option)
- Display formats: V2:3, V3:2, V3:1, H2:3, Full, Duplex/Triplex (V: vertical, H: horizontal)
 - Sample volume size: same as PW
 - Sample gate depth: adjustable
 - Sample volume depth: continuously adjustable
 - Scale: 30 levels
 - Volume: 0%-100%, 2%/step
 - PRF: 0.7-23.1kHz
 - Gain: 0-100, 2/step
 - Baseline: 9 steps
 - Dynamic range: 24-72, 2/step
 - Sweep speed: 6 steps
 - Wall Filter: 10 steps
 - Invert: On/Off
 - Angle correction: -89-89 degrees, 1/step
 - Quick angle: 0, -60, 60 degrees
 - Gray map: 10 types
 - Tint map: Off; 8 types
- Image quality: 2 levels
 - Time/frequency resolution: 0-6, 1/step
- 4.17 Tissue Velocity Motion (included in TDI option)
- Display formats: V2:3, V3:2, V 3:1, H2:3, Full (V: vertical, H: horizontal)
 - Acoustic output power: same as B
 - Gain: 0-100, 2/step
 - M sweep speed: 6 steps
 - Smooth: 0-6, 1/ step
 - Color Map: 10 types
 - Image quality: 2 levels
 - Persistence: 0-6, 1/ step
 - Packet size: 0-3, 1/ step
 - Priority: 0%-100%, 1%/step
 - Velocity tag: On/Off
 - Tissue state: L/M/H
- 4.18 Smart 3D™
- Smart 3D
- Acquisition preparation:
- 3D/4D Scenario setting: Routine

- Acquisition Methods: Rocked,
Linear
 - Reset VOI: On/Off
 - Flip VOI: On/Off
 - Angle: 10-80°
 - Distance: 10-200mm
 - Acquiring Time: 1.0s-20.0s
- VR:
- 3D/4D Scenario: Routine (Surf.,
iLive Gen., iLive Transp.,
Skeleton)
 - Reset: All, Orientation, Curve
 - VOI: On/Off/Fixed
 - Active quadrant: A, B, C, VR
 - VR orientation: 0°, 90°, 180°,
270°
 - Flip: flip VR
 - Sync: synchronize VR with
selected plane
 - Orientation Assist: On/Off
 - Threshold: 0-100%, 1%/step
 - Opacity: 0-100%, 5%/step
- Brightness: 0-100%, 2%/step
 - Contrast: 0-100%, 2%/step
 - Smooth: 0-10, 1/ step
 - Depth VR: Off/Black/Cyan/Blue/
Rose
 - Tint: off; 8 types
 - Degree: 10-80°
 - Distance: 10-200mm
- MPR:
- Active quadrant: A, B, C
 - Gray Map: 1-8
 - Brightness: 0-100%, 2%/step
 - Contrast: 0-100%, 2%/step
 - iClear: Off; 7 types
 - Tint: Off; 8 types
 - Thickness: 0-30mm
- Adv.:
- Direction: Up/Down, Left/Right,
Front/Back, Down/Up,
Right/Left, Back/Front
 - VR Refine: Off; 7 steps
 - Surface enhance: 0-7, 1/step

- MagiClean:
 - Off/Low/Mid/High/Max
- Inversion: On/Off
- A3:1: On/Off
- Move light: On/Off
- Degree: 10-80°
- Distance: 10-200mm
- Main render: Surface, Max, Min,
 - X Ray, iLive
- Sub render: Surface, Max, Min,
 - X Ray
- Mix: Set the mix ratio of the two
 - render modes
- Tool
 - Edit:
 - Rubber: On/Off
 - Eraser Diameter: 8-80, 1/step
 - Cut (area selection): Polygon,
 - Contour, Rectangle, Line
 - Undo: Undo, Undo All
 - 3D Layout:
 - Niche Views: Inner, Outer
- 3Slice
- Active Quadrant: A, B, C,
 - Niche/3Slice
- Auto rotation:
 - Position: Set Start/Set End
 - Direction: Left/Right, Up/Down
 - Step: 1-15°
 - Quick Angle: 30-180°
 - Rotation control: play, single
 - loop, loop
 - Save AVI to USB

4.19 4D

- Available on all volume transducers
- Static 3D and real time 4D

Acquisition preparation:

- 4D frame rate: max. 80 vps
- 3D/4D Scenario setting: Smart
 - Scene3D (Spine, Brain, Long
 - Bone, Face, Endometrium,
 - Pelvic), Routine, iLive Pro, Bone,
 - Tissue (not all scenarios are
 - listed)

- Refresh: On/Off
- Angle: 10-120°
- Quality: low1, low2, mid, high1, high2
- Other parameters are the same as Smart 3D

VR:

- 3D/4D Scenario: Smart Scene 3D, Routine, iLive Pro, Bone, Tissue, Routine (not all scenarios are listed)
- 3D iClear: Off; 7 steps
- Face+: Off, 3 steps
- Auto Play: Stop, x1, x2, x3, x1/2, x1/3
- Frame: Select a frame
- Other parameters are the same as Smart 3D

MPR

- 3D iClear: Off; 7 types
- Other parameters are the same as Smart 3D

Adv.:

- The parameters are the same as Smart 3D

Tool

- The parameters are the same as Smart 3D

• 3D Reference Point

- Enable the operator to define one or more reference points on MPRs, which are then projected to VR image; helpful for the operator to better understand the corresponding spatial relations of VR image and MPRs
- Display: Point only, H line, V line
- Delete All
- Hide All

• Color 3D

- Available on volume transducers
- Supports Color and Power mode
- Only Available in Static 3D mode

• STIC

- Color STIC available
- Acquiring Time: 7.5-17.5s
- Support iPage⁺ viewing
- CMPR available
- SCV⁺ available
- 3 Slice and Niche available
- iPage⁺
 - Slice display mode: Slice only, Slice with SCV
 - RefMPR: A Plane, B Plane, C Plane
 - Reset Ori: On/Off
 - Sync MPR: A/B/C
 - Quick Rotation: 90°, -90°, -180°
 - Slice layout: 2*2, 3*3, 4*4, 5*5
 - Slice Number: 3-25
 - Spacing: 0.5-10mm
 - Line (Start)/Line (End)
 - Single window
 - Display Ref plane
 - Hide Ref plane
 - Vertically display ref plane
 - Horizontally display ref plane
- Move plane
- SCV⁺
 - SCV
 - Reset: All
 - Orientation Assist: On/Off
 - Active Quadrant: A, B, C
 - Main render modes: Surface, Max, Min, X-ray
 - Sub render modes: Surface, Max, Min, X-ray
 - Mix: Set the mix ratio of the two render modes
- CMPR
 - Reset Curve
 - Undo Last
 - Flip: Thickness, Direction
 - Ref. Image (A B, C), 1, 2, 3
 - Trace Options: Line, Trace, Spline
 - Quick Rotation: 90°, -90°, -180°
 - Hide Annotation
 - Rotate RL

- Support labeled measurements
- iLive
 - Shading: 0-10, 1/step
 - Grad View
 - Hyaline: On/Off, 0~100%, 5%/step
 - Move Light
 - Light Position: 6 default positions selectable
 - Light 1/2/3: Parallel, Point, Torch
 - VL Saturation: 0~100%, 1%/step
 - VL Hue: 0~100%, 1%/step
 - VL Distance: 0.0 – 5.0
 - VL Bright: 0~100%, 1%/step
 - VL Angle: 0~100%, 1%/step
 - Tint: 0-4
 - Reset
Classic/IntPoint/ExtPoint/Parallel/Torch/ 3-Light/ User 1/User 2
 - Copy to: Copy the current lighting mode to customized lighting mode "User 1" or "User 2"
- Smart Planes CNS
 - Detect automatically the standard sections of TCP, TTP, MSP and TVP
 - Rotation around X/Y/Z axes
 - Hide line: On/Off
 - Reset: All planes/current plane
 - Auto comment supported:
A(anterior), P(posterior), L(Left), R(Right), U(Up), D(down), CSP, T, CH, CV, CM, LV on TCP, TTP, MSP and TVP
 - Auto measurement supported:
 - TCD and Cist Maga (CM) on section TCP;
 - BPD, OFD and HC on section TTP;
 - LVW on section TVP
 - Support editing measurement results
 - Hide Measure: On/Off
 - MSP adjust: A/B/C
 - Support comment and bodymark on sectional plane
 - Font Size: Small, Medium, Large

- Smart ICV
 - Measure fetal cerebral volume automatically
- Smart Planes FH
 - Detect automatically left ventricular outflow tract view, right ventricular outflow tract view, LAV-DA view, 3VV-T view and stomach bubble view
 - Navigate: On/Off
 - Fetal heart: Stomach, 4 chamber, LVOT, RVOT, Ductal Arch, 3VT
 - Quick Adjust: -10-10
- Smart Face
 - Recognize fetal face automatically and then display the face in a recommended viewing angle
 - AutoDirect
 - MixRender: 0~3
 - Erase size: 0-2
 - Eraser: For Rubber/Re-Rubber
 - SubTint: 1-4
- FaceContact: -15~15
- VR Orientation: 0°, 90°, 180°, 270°
- Smart FLC (Smart Follicle)
 - Automatic follicle calculation
 - Edit ROI and detect follicle contour automatically
 - Undo: Undo, Redo, Undo All
 - Active Quadrant: A, B, C, Follicle, Left, Right
 - Calc: On/Off
 - Edit ROI: On /Off
 - Edit: Divide, Merge, Add/Del
 - Save to Report
- Smart-V™ (Smart Volume)
 - Auto 3D volume calculation
 - Smart-V ROI: Manual ROI on A, B, C planes separately
 - Smart-V Trace: Manual trace on A, B, C planes separately
 - Smart-V Vocal: Separately Trace contours on each slice that is generated by rotation

- Smart-V Parallel: Separately Trace contours on each slice that is generated by translation
 - Display: 2D, 2D&C
 - Trace Mode: Smart Trace, Spline, Trace, Control Point
 - Window format: 1*1, 3*2, 3*3, 4*3
 - Shell: Inside, Outside, Sym.
 - Auto detect contour of target
 - Volume result shows in result window
 - Reset: Orientation
 - Active Quadrant: A, B, C, Smart-V
 - Support MRP measurement
 - Smart Scene 3D
 - As an intelligent scenario-oriented volume scan technique, it automatically enables the identification of tissue characteristics and provides an organ-specific diagnosis with full-stack intelligence from imaging optimization, to planes acquisition, quantification and with automated workflow throughout whole procedure.
 - Available in fetal brain, fetal face, spine, long-bone, endometrium, and pelvic floor.
 - Not available on Smart 3D mode
 - Adjust ROI size and position automatically and activate appropriate render modes according to the recognized anatomical structure of certain organs
- #### 4.20 Smart Track
- Available on linear probes
 - Enable the function under Color/Power mode, the angle and the position of the ROI are adjusted automatically.
 - Enable the function under Color/Power+PW mode, the angle

and the position of the PW

sampling line, SV size, SV angle and SV position are adjusted automatically.

4.21 RIMT (RF-Data based IMT)

- Available in single/dual B carotid exam mode
- Side: left/right
- Calculation of 6 RIMT values, RIMT average value, SD and ROI W
- Report operation:
 - Data deleting
 - RIMT trend graphic viewing
 - Preview

4.22 iScape™ View

- Acquisition method: B and Power
- Supports speed indicator
- Actual size: On/Off
- Fit size: On/Off
- Ruler: On/Off
- Tint map: Off; 8 types
- Rotation: 0~355 degrees, 5/step

4.23 iNeedle

- Needle visualization enhancement
- Available on linear (except for the linear plane of ELC13-4s), SC6-1s, and C6-2Gs probes
- Needle direction: Auto, Left, Right
- B/iNeedle: On/Off
- In-plane biopsy and Out-plane biopsy
- GPS real-time guiding biopsy

4.24 V Flow (Vector Flow)

- Available on L9-3s in real-time B/Color carotid exam mode
- Quality: 1-8
- V Flow map: 4 levels
- Gain: 0-8, 1/step
- Persistence: 0-5, 1/step
- Edge smooth: Low/Mid/High
- Wall Filter: 8 steps
- Brightness: 0-100%, 5%/step
- Colorbar scale: 50-100cm/s, 10cm/s/step

- Arrow life time: 10-50, 1/step available
- Arrow size: S/M/L/XL/XXL
- Arrow density: 1%-10%, 1%/step
- Packet size: 0-3, 1/step
- Acquire time: 0.5s, 0.6s, 0.8s, 1.0s, 1.2s, 1.5s
- TGC: same as B
- HR Range: Random, HR48-53, HR54-59, HR60-69, HR70-79, HR80-89, HR>89
- Timer1: On/Off
- Timer2: On/Off
- Pro capture: captures prospective image less than 480s preset table
- Retro capture: captures retrospective image less than 120s preset table
- Dual live: side by side displays tissue image and contrast image

4.25 UWN+ Contrast Imaging™

- UWN+ (Ultra Wideband Non-linear Plus) contrast imaging technology, which provides exceptional contrast agent detecting capability, not only extracts second harmonic, but also non-linear fundamental signals
- Available on SC6-1s, SC8-2s, C11-3s, C6-2Gs, L9-3s, L14-3Ws, L20-5s, V11-3Hs, SP5-1s, SD8-1s, DE11-3Ws, and ELC13-4s probes
- Micro Flow Enhancement (MFE)
- MFE: On/Off
- MFE period: 0.1s, 0.2s, 0.4s, 0.6s, 0.8s, 1.0s, MAX
- Destruct: instantly destroy contrast bubbles
- Destruct AP: -30~0dB, 0.3/step
- Destruct time: 500-2000 ms
- Contrast Agent: SonoVue and SonaZoid
- iClear: Off; 7 steps
- Mix: mix contrast image with tissue image

- Mix map: 7 types, available when Mix mode is active
- Persistence: 8 steps
- Dynamic range: same as B mode
- Gray map: 8 types
- Tint map: Off; 8 types
- Supports U/D Flip and L/R Flip
- Rotation: same as B
- CEUS Position: On/Off
- Line density: L/M/H/UH
- FOV: On/Off
- FOV size/position: continuously adjustable
- ExFov: Off, 1-2, 1/step
- Gain: 0-100, 1/step
- iTouch: On/Off, -8~8, 2/step
- Image quality: 3 levels
- Smooth: 0-6, 1/step
- Enhance: On/Off
- Markline: On/Off
- LGC: 8 points

*The I9 series is designed for

compatibility with commercially available ultrasound contrast agents. Because the availability of these agents is subject to government regulation and approval, product features intended for use with these agents may not be commercially marketed nor made available before the contrast agent is cleared for use. Contrast related product features are enabled only on systems for delivery to an authorized country or region of use. Mindray medical systems makes no claims concerning the safety or effectiveness of contrast agents.

4.26 Contrast Imaging QA

- Support Time-Intensity Curve analysis
- Table display: display data in table
- Up to 8 ROIs
- Delete all
- Delete current

- Copy ROI
- Fit curve
- Raw curve
- Motion tracking: Reduce the effect of tissue movement
- X scale: 1-5, 1/step
- Auto play: Stop, X1/10, X1/5, X1/4, X1/3, X1/2, X1, X2, X3
- ROI Type: Trace ROI, Ellipse ROI
- Export: export current data as CSV format file

4.27 LVO

- Only available in LVO exam mode
- Dedicated left ventricle contrast imaging tool

4.28 Low MI Contrast Imaging

- Only available in cardiac exam mode
- Enhances echo reflection by using contrast agent to perform myocardial analysis based on echocardiography technique

4.29 Volume CEUS

- Available on SD8-1s and DE11-3Ws probes
- Display: Contrast, Tissue
- Capture 3D image
- Other parameters are the same as those of 4D imaging

4.30 STE Imaging (Sound Touch Elastography Imaging)

- Available on SC6-1s, C6-2Gs, L9-3s, L20-5s, L14-3Ws, V11-3Hs, DE11-3Ws, and ELC13-4s probes
- Display Format: V1:1, H1:1, Full
- Invert: On/Off
- HQ Elasto: On/Off
- E Quality: Pen, Gen, Res
- Elas.Metric: E, Cs, G
- Scale: 30 levels
- Opacity: 0-5, 1/step
- Map: 3 types
- ROI Width/Height: continuously random adjustable

- ROI Center Depth: continuously adjustable
- Depth: same as B mode
- iLayering: On/Off
- Filter: 0, 1
- RLB View: On/Off
- M-STB Index: On/Off
- M-STB Sensibility: 0~4, 1/step
- Smooth: 0~2, 1/step
- Persistence: 0~2, 1/step
- RLB Map: On/Off, RLB, RLB&E, RLB&B&E
- Map Position: 0%~100%, 5%/step
- E bar: Mean, Max, Min, SD
- E Avg: Off, 8 levels
- Select/Bad: On/Off
- Fixed ROI: On/Off
- Save All: On/Off
- Lesion: Off, 1-10

4.31 Natural Touch Elastography

- Available on L9-3s, L14-3Ws, L20-5s, V11-3Hs, DE11-3Ws, and ELC13-

4s probes

- Support strain, strain ratio and strain histogram measurement
- Unique shell analysis function
- Stress compensation technology reduces deeper tissue artifacts, obtain more uniform stress throughout whole field
- Stress indicator: supports frame by frame stress indication.
- Map: 6 types
- Smooth: 0-5, 1/ step
- Opacity: 0-5, 1/step
- ROI Width/height: continuously adjustable
- Invert: On/Off
- Display Format: V1:1, H1:1, Full
- Strain mode: 0~1, 1/step
- Dynamic Range: 0~5, 1/step
- Map Position: 0%~100%, 5%/step
- Strain Scale: 0-5, 1/step
- E Sensitivity: 0-5, 1/step

4.32 High frame rate STE

- Available on SC6-1s, C6-2Gs, L9-3s, L20-5s, L14-3Ws, V11-3Hs, DE11-3Ws, and ELC13-4s probes
- Improve the image refresh rate and provide a smoother STE image

4.33 STQ Imaging (Sound Touch

Quantification Imaging)

- Available on SC6-1s, C6-2Gs, L9-3s, L20-5s, L14-3Ws, V11-3Hs, DE11-3Ws, ELC13-4s probes
- ROI Adjustment: adjust the ROI fixed size
- Elas.Metric: E, Cs, G
- E bar: Mean, Max, Min, SD
- M-STB Index: On/Off
- M-STB Sensibility: 0-4, 1/step
- Filter: 0, 1
- Smooth: 0-2, 1/step
- Persistence: 0-2, 1/step
- Map Position: 0~100%, 5%/step
- Lesion: Off, 1~10

- The square height of the elasto curve represents the average value of the elasto metric for current frame.

- Scale: 0-9, 1/step
- E Avg: off, 8 levels
- HQElasto: On/Off
- Select/Bad: On/Off
- Fixed ROI: On/Off
- Save All: On/Off
- Lesion: Off, 1-10

4.34 iFusion

- Available on SC6-1s, C6-2Gs, SP5-1s, SC8-2s, L14-3Ws, ELC13-4s, and V11-3Hs probes in B/ Color/ Power/ contrast imaging mode (non-cardiac)
- Single window display
- Fusing CT/MR/PET/freehand volume data with the ultrasonic image
- CT/MR/PET data reconstruction for

- 3D displaying
 - Tracking system: On/Off
 - Fusion ratio: -1~1, 0.1/step
 - Axis rotation: 0° ~ 360° based on X-axis, Y-axis or z-axis in increment of 2°.
 - ROI Offset X: -630~630
 - ROI Offset Y: -566~566
 - Window W/L: 1/step. Adjust the CT/MR/PET/freehand brightness and the contrast by changing the width and the level.
 - Reset Window W/L
 - Reset CT/MR
 - Display marks
 - Respiration curve: On/Off
 - Respiration Range: 0/1/2
 - View Type: Axial, Coronal, Sagittal
 - Quick Translation
 - Registration
 - Mark on Volume Data/Mark on Fusion Image
 - Support general measurement
 - Support adding comment and bodymark
- 4.35 Auto EF
- Output EDV/ESV/EF/SV/CO by Simpson method
 - Activated with or without ECG
 - Adjustment for the border of endocardium by single point or multi points
 - Adjust Frame
 - Layout: Dual/ Single
 - Diastole FR
 - Systole FR
 - Volume curve: On/Off
- 4.36 TDI QA
- Dedicated quantification tool for TDI velocity, strain, strain rate analysis
 - Ellipse ROI, Standard ROI
 - Up to 8 of ROI
 - Delete all

- Delete current
- ROI tracking: tracking ROI along with cardiac movement
- Smooth: 1-7, 1/step
- X scale: 1-5, 1/step
- Std.Height: 1.5-50 mm
- Std.Width: 1.5-50 mm
- Std.Angle: -89-90 degrees
- Export: export current data as CSV format file
- Accept & compute: start tracking myocardium movement when user accept trace result
- Display effect: 0/1; at 1, tracking in velocity vector arrow; at 0, tracking in dots
- Trace method: 3 point or manual for ALAX, A4C, A2C; manual for PSAXB, PSAXM, PSAXAP
- Bull's eye: trace result in bull's eye model

4.37 TT QA

- Available on the SP5-1s probe under the cardiac mode.
- Tissue tracking quantitative analysis
- Mandatory ECG connection before TTQA cine acquisition
- Six views for analysis: ALAX, A4C, A2C, PSAXB, PSAXM, PSAXAP
- Reload: reload cine again for new study
- Edit: modify trace points
- Start tracking
- Valve's open and close time index: MVC, MVC', AVC, AVO, MVO
- Data export: export data in CSV file
- Cycle: ECG triggered cardiac cycle recognition for analysis; adjustable
- Auto play: stop, X1/10, X1/5, X1/4, X1/3, X1/2, X1, X2, X3
- Thickness: 1-30mm, 1mm/step; adjust trace thickness
- Track point: 20-40, 1/step
- Parameter: Volume, Speed,

- Displacement, L Strain, L Strain R, T Strain, T Strain R, Area, R Strain, R Strain R, C Strain, C Strain R, C Rotation, C Rotation R
 - Smooth: 0-4, 1/step
 - Trace method: 3 point, manual
 - Tracking cycles: 1, 3
 - Select Cycle: select among 3 cycles when the Tracking Cycle is set to 3
 - Average Cycle: On/Off
 - Velocity scale: 0%-200%
 - Display style: All, Endo., Myo., Epi.,
 - Curve Display
 - Torsion & Torsion Rate Curve
 - LGC adjustment
 - Data Export: export current data as CSV format file
- 4.38 Fetal heart TT QA
- Available Under Fetal Echo related exam modes
 - Trace method: Manual
- 4.39 Stress Echo
- Available on the SP5-1s probe in cardiac mode
 - 14 factory protocols
 - User-defined protocols
 - ECG triggered acquisition, display, selection, comparison, evaluation and archiving of multiple cardiac loops during various stages of a stress echo examination
 - Customized stages: up to 7 views per stage, and up to 12 stages per study
 - View: standard views (PLAX, SAB, PSAX, SAA, A4C, A2C, ALAX), and customized views
 - Image acquisition
 - R-wave trigger
 - Acquire mode: Manual ROI or full screen
 - Ability to acquire frames or clips in B-mode, M-mode, Color, PW and TDI

- Image selection

Attach the images with view annotation label PLAX, SAB, PSAX, SAA, A4C, A2C, ALAX, and customized views)

- Review

Automatically adjust to the number of images user defined

- Wall Motion Scoring

- ASE 16 (with score 4-7), or ASE 17(with score 4-7)

- Graphical display of scoring (Normal, Hyperkinetic, Severely Hyperkinetic, Akinetic, Dyskinetic)

- LV volume measurement

Measurement of LV Volume in all phases of cardiac cycle

- Report

Reporting for both Wall Motion Scoring and LV volume measurement

4.40 R-VQS

- Track movements of the upper and lower vessel walls automatically

- Displacement and Vessel diameter display in the result window.

- Motion curve of vessel walls display under the image in real time.

- Side: Left, Right

- Speed: 6 levels

- Position: 0-100%

- Curve Disp: Adjust the height of the curve

4.41 Smart Pelvic

- Enter smart pelvic in 2D or 3D/4D scanning mode.

- Set Rest, Valsalva, and Contraction frame

- Measure automatically

4.42 Smart Fetal HR (Fetal Heart Rate)

- Measure the fetal heart rate automatically on B and M modes

- Smart FHR cycle: 1-3

- Alignment Out-Plane

4.43 Smart Thyroid

- Recognize nodules, separate the nodule boundary, list the characteristics of the nodules, trace the nodule boundary, and perform measurements
- Side: Left, Right, Isthmus
- Select nodule
- Add nodule/Delete nodule
- Select view
- Add/delete malignant signs view
- Display/Hide measurement results
- Analyze Nodule
- Confirm Nodule
- Review Nodule Analysis

4.44 Smart Breast

- Recognize lesions, list the characteristics of the lesions and perform measurements
- Side: Left, Right
- Select Mass
- Add Mass/Delete Mass

- Select view
- Add/delete malignant signs view
- Display/Hide measurement results
- Analyze Mass
- Confirm Mass
- Review Mass Analysis

4.45 iScanHelper

- Tutorial function as a guidance to show basic scanning skill with graphic of probe position, schematic of anatomy and example clinical image
- Support ABD, SMP, URO, OB, GYN applications
- Support broadcasting the scanning skill in multi languages

4.46 iCompare

- Allow to compare real-time ultrasound imaging to the past DICOM CT/MRI/Mammography/X-Ray/Ultrasound images without external workstation

- Helpful to easily evaluate and follow up the progression of disease, treatment effect monitoring.

4.47 DVR

- Digital video recorder, a useful tool for education and memory
- Max storage length each time: 60 min

5 Cine Review and Raw Data

Processing

5.1 Cine review

- Available in all modes
- Frame by frame manual cine loop review or auto playback with variable speed
- Maximum cine memory up to 63575 frames (B storage server) or 210.65s (M storage server) (depends on the mode)
- Maximum 4D cine memory: 5423 volumes (SD8-1s)
- Retrospective storage (1-120s pre-

settable) and prospective storage (1-480s pre-settable)

- Frame compare: displays one cine in dual format and allows frame by frame compare side by side
- Cine compare: compare cines which are saved in same imaging mode
- Jump to first and jump to last: one keystroke go to first or last frame in the cine

5.2 Raw data processing

- B-mode:
TGC
Gain
Dynamic range
Gray map
Tint map
iClear
L/R Flip
U/D Flip
Rotation
iTouch

LGC	Gain
Dual live	Baseline
Auto Merge	Smooth
H Scale	Color map
Echo Boost	Priority
B/iNeedle	Dual Live
Smooth	Invert
Zoom	Velocity tag
Ref Lines	Glazing flow
Dehaze	• PW:
V1:1	Gain
ExtImage	Baseline
ZoneVue	Volume
Edge Enhance	Angle
• M-mode:	Speed
Gain	Dynamic range
Speed	Gray map
Dynamic Range	Tint Map
Gray Map	Display format
Tint Map	Invert
Display format	WF
• Color:	T/F Res

6 Measurement/Analysis and Report*

6.1 Generic measurements

- B-Mode

Depth

Distance

Ellipse

Trace

Spline

Cross

Angle(2L)

Angle(3P)

Double Dist

Trace Len

Trace Len(Spline)

Parallel

Distance P-L

IMT

B-Profile

B-Hist(Ellipse)

B-Hist(Trace)

B-Hist(Spline)

B-Hist(Rectangle)

Color Vel

Strain Hist

Elas. Hist

Color Vel Profile

Elas.

Strain

TSM

Color Pixel Percent(Ellipse)

Color Pixel Percent(Trace)

Color Pixel Percent(Rectangle)

Color Pixel Percent(Recall)

Smart Caliper

Smart Trace

Volume

Volume(Ellipse)

Volume(E+Dist.)

Ratio(D)

B Ratio

Volume

Volume

Volume(Ellipse)	• M-Mode
Volume(E+Dist.)	HR
Ratio(A)	HR(R-R)
Area1	Slope
Area2	Distance
Directional Ratio	Time
D1	Velocity
D2	
RAC	• D-Mode
Sag	PS
XS	ED
Volume Flow	PS/ED
Vas Area	Vel
TAMEAN	HR
TAMAX	HR(R-R)
Elas. Ratio	Time
A	Auto Trace
B	Manual Trace
Strain Ratio	Spline Trace
A	Acceleration
B	-----
	Ratio(Vel)

Ratio(VTI)

S/D

D/S

Volume Flow

PI

Vas Area

RI

TAMEAN

PV

TAMAX

HR

6.2 AutoCalc

PS

ED

MD

PPG

TAMAX

Vol Flow(TAMAX)

TAMEAN

Vol Flow(TAMEAN)

Vas Diam

Vas Area

DT

MPG

MMPG

VTI

AT

6.3 Clinical option measurement package

- Abdomen

B-Mode

- Aorta Bif

- Aorta Aneurysm Status

- Shunt Diam

- Portal V Diam

- M Portal V Diam

- Splenic V Diam

- PS Conflnc Diam

- Renal V Diam

- SMV Diam

- IMV Diam

- CHD

- GB L

- GB H

- GB W
- GB wall th
- Cystic Duct
- CBD
- Panc duct
- Panc head
- Panc neck
- Panc body
- Panc tail
- Appendix
- Appendix Wall
- Pylorus
- Pylorus Wall
- Renal L
- Renal H
- Renal W
- Cortex
- Adrenal L
- Adrenal H
- Adrenal W
- Ureter
- Cortex(Renal Transplant1)
- Renal V Diam(Renal Transplant1)
- Ureter Diam(Renal Transplant1)
- Cortex(Renal Transplant2)
- Renal V Diam(Renal Transplant2)
- Ureter Diam(Renal Transplant2)
- Pre-BL L
- Pre-BL H
- Pre-BL W
- Post-BL L
- Post-BL H
- Post-BL W
- Spleen L
- Spleen H
- Spleen W
- Spleen Area
- Skin-L.Capsule Dist.
- Hepatic Lesion1 Elas.
- Hepatic Lesion2 Elas.
- Hepatic Lesion3 Elas.
- LSM

- Rt DT(Insp)
- Rt DT(Expir)
- Lt DT(Insp)
- Lt DT(Expir)
- Free Fluid
- Smart HRI
- -----
- Renal Vol
- Pre-BL Vol
- Post-BL Vol
- Mictur.Vol
- -----
- Aorta
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area
- Celiac Axis
- Anterior-Posterior
- Transverse
- SMA
- Anterior-Posterior
- Transverse
- C Hepatic A
- Anterior-Posterior
- Transverse
- Proper Hepatic A
- Anterior-Posterior
- Transverse
- Hepatic A
- Anterior-Posterior
- Transverse
- Splenic A
- Anterior-Posterior
- Transverse
- GDA
- Anterior-Posterior
- Transverse
- IMA
- Anterior-Posterior
- Transverse
- Aorta Aneurysm

- Long
- Anterior-Posterior
- Transverse
- Celiac A Aneurysm
- Long
- Anterior-Posterior
- Transverse
- SMA Aneurysm
- Long
- Anterior-Posterior
- Transverse
- C Hepatic A Aneurysm
- Long
- Anterior-Posterior
- Transverse
- Proper Hepatic A Aneurysm
- Long
- Anterior-Posterior
- Transverse
- Hepatic A Aneurysm
- Long
- Anterior-Posterior
- Transverse
- Splenic A Aneurysm
- Long
- Anterior-Posterior
- Transverse
- GDA Aneurysm
- Long
- Anterior-Posterior
- Transverse
- IMA Aneurysm
- Long
- Anterior-Posterior
- Transverse
- EVAR Residual Aneurysm
- Sac(2D)
- Anterior-Posterior
- Transverse
- EVAR Inflow(2D)
- Anterior-Posterior
- Transverse
- EVAR Graft Body(2D)
- Anterior-Posterior

- Transverse
- EVAR Limb(2D)
- Anterior-Posterior
- Transverse
- EVAR Outflow(2D)
- Anterior-Posterior
- Transverse
- Aortic Bypass Graft Anast(2D)
- Anterior-Posterior
- Transverse
- Aortic Bypass Graft Graft(2D)
- Anterior-Posterior
- Transverse
- ABD Stenosis 1(2D)
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area
- ABD Stenosis 2(2D)
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area
- ABD Stenosis 3(2D)
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area
- ABD Stenosis 4(2D)
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area
- IVC
- Anterior-Posterior
- Transverse

- Checklist
- Hepatic V(2D)
- Anterior-Posterior
- Transverse
- Lt Hepatic V(2D)
- Anterior-Posterior
- Transverse
- M Hepatic V(2D)
- Anterior-Posterior
- Transverse
- Rt Hepatic V(2D)
- Anterior-Posterior
- Transverse
- Liver
- L
- H
- W
- R Liver Lobe
- L
- H
- W
- L Liver Lobe
- L
- H
- W
- Hepatic Lesion 1
- d1
- d2
- d3
- Hepatic Lesion 2
- d1
- d2
- d3
- Hepatic Lesion 3
- d1
- d2
- d3
- Hepatic Cyst 1
- d1
- d2
- d3
- Hepatic Cyst 2
- d1
- d2

- d3
- Hepatic Cyst 3
- d1
- d2
- d3
- GB
- GB L
- GB H
- GB W
- GB wall th
- GB Finding 1
- d1
- d2
- d3
- GB Finding 2
- d1
- d2
- d3
- GB Finding 3
- d1
- d2
- d3
- GB Finding 4
- d1
- d2
- d3
- GB Finding 5
- d1
- d2
- d3
- Panc Finding 1
- d1
- d2
- d3
- Panc Finding 2
- d1
- d2
- d3
- Panc Finding 3
- d1
- d2
- d3
- Panc Finding 4
- d1

- d2
- d3
- Panc Finding 5
- d1
- d2
- d3
- Kidney
- Renal L
- Renal H
- Renal W
- Cortex
- Adrenal
- Adrenal L
- Adrenal H
- Adrenal W
- Renal Lesion 1
- d1
- d2
- d3
- Renal Lesion 2
- d1
- d2
- d3
- Renal Lesion 3
- d1
- d2
- d3
- Renal Cyst 1
- d1
- d2
- d3
- Renal Cyst 2
- d1
- d2
- d3
- Renal Cyst 3
- d1
- d2
- d3
- Kidney(Superior)
- H
- W
- Kidney(Mid)
- H

- W
- Kidney(Inferior)
- H
- W
- Renal A
- Long
- Anterior-Posterior
- Transverse
- Renal A Aneurysm
- Long
- Anterior-Posterior
- Transverse
- Kidney(Renal Transplant1)
- L
- H
- W
- Adrenal(Renal Transplant1)
- L
- H
- W
- Finding 1(Renal Transplant1)
- L
- H
- W
- Finding 2(Renal Transplant1)
- L
- H
- W
- Finding 3(Renal Transplant1)
- L
- H
- W
- Finding 4(Renal Transplant1)
- L
- H
- W
- Finding 5(Renal Transplant1)
- L
- H
- W
- Finding 6(Renal Transplant1)
- L
- H
- W

- Renal Transplant 1(2D)	- H
- Cortex(Renal Transplant1)	- W
- Renal V Diam(Renal Transplant1)	- Finding 3(Renal Transplant1)
- Ureter Diam(Renal Transplant1)	- L
- Kidney(Renal Transplant1)	- H
- L	- W
- H	- Finding 4(Renal Transplant1)
- W	- L
- Adrenal(Renal Transplant1)	- H
- L	- W
- H	- Finding 5(Renal Transplant1)
- W	- L
- Finding 1(Renal Transplant1)	- H
- L	- W
- H	- Finding 6(Renal Transplant1)
- W	- L
- Finding 2(Renal Transplant1)	- H
- L	- W

- Kidney(Renal Transplant2)
- L
- H
- W
- Adrenal(Renal Transplant2)
- L
- H
- W
- Finding 1(Renal Transplant2)
- L
- H
- W
- Finding 2(Renal Transplant2)
- L
- H
- W
- Finding 3(Renal Transplant2)
- L
- H
- W
- Finding 4(Renal Transplant2)
- L
- H
- W
- Finding 5(Renal Transplant2)
- L
- H
- W
- Finding 6(Renal Transplant2)
- L
- H
- W
- Renal Transplant 2(2D)
- Cortex(Renal Transplant2)
- Renal V Diam(Renal Transplant2)
- Ureter Diam(Renal Transplant2)
- Kidney(Renal Transplant2)
- L
- H
- W
- Adrenal(Renal Transplant2)
- L

- H
- W
- Finding 1(Renal Transplant2)
- L
- H
- W
- Finding 2(Renal Transplant2)
- L
- H
- W
- Finding 3(Renal Transplant2)
- L
- H
- W
- Finding 4(Renal Transplant2)
- L
- H
- W
- Finding 5(Renal Transplant2)
- L
- H
- W
- Finding 6(Renal Transplant2)
- L
- H
- W
- Bladder
- Pre-BL L
- Pre-BL H
- Pre-BL W
- Post-BL L
- Post-BL H
- Post-BL W
- Spleen
- Spleen L
- Spleen H
- Spleen W
- Spleen Area

- Hepatic Lesion1 ElasRatio

- A

- B

- Hepatic Lesion2 ElasRatio

- A

- B

- Hepatic Lesion3 ElasRatio

- A

- B

-

M-Mode

- Rt DT(Insp M)

- Rt DT(Expir M)

- Lt DT(Insp M)

- Lt DT(Expir M)

- RDE(QB)

- RDE(DB)

- LDE(QB)

- LDE(DB)

-

D-Mode

- Aorta

- Celiac Axis

- SMA

- C Hepatic A

- Proper Hepatic A

- Hepatic A

- Splenic A

- GDA

- IMA

- Aorta(Post)

- Celiac Axis(Post)

- SMA(Post)

- C Hepatic A(Post)

- Proper Hepatic A(Post)

- Hepatic A(Post)

- Splenic Artery(Post)

- GDA(Post)

- IMA(Post)

- EVAR Residual Aneurysm Sac

- EVAR Inflow

- EVAR Graft Body

- EVAR Limb

- EVAR Outflow

- Aortic Bypass Graft Anast
- Aortic Bypass Graft Graft
- IVC Reflux
- IVC
- Hepatic V
- Lt Hepatic V
- M Hepatic V
- Rt Hepatic V
- Portal V
- M Portal V
- Splenic V
- Renal V
- SMV
- IMV
- Hepatic A Anast(Liver Transplant)
- Hepatic V Anast(Liver Transplant)
- Portal V Anast(Liver Transplant)
- IVC(Liver Transplant)
- Hep V Confl(Liver Transplant)
- Donor IVC(Liver Transplant)
- Renal A
- Ren A Org
- M Renal A
- Renal A1
- Renal A2
- Hilum
- Interlobar A
- Arcuate A
- Segment A
- Artery Anast(Renal Transplant1)
- Artery Anast 2(Renal Transplant1)
- Vein Anast(Renal Transplant1)
- Vein Anast 2(Renal Transplant1)
- Renal A(Renal Transplant1)
- Renal A1(Renal Transplant1)
- Renal A2(Renal Transplant1)
- Hilum(Renal Transplant1)
- Interlobar A(Renal Transplant1)
- Arcuate A(Renal Transplant1)
- Segmental A(Renal Transplant1)
- Renal Vein 1(Renal Transplant1)

- Renal Vein 2(Renal Transplant1)
- Artery Anast(Renal Transplant2)
- Artery Anast 2(Renal Transplant2)
- Vein Anast(Renal Transplant2)
- Vein Anast 2(Renal Transplant2)
- Renal A(Renal Transplant2)
- Renal A1(Renal Transplant2)
- Renal A2(Renal Transplant2)
- Hilum(Renal Transplant2)
- Interlobar A(Renal Transplant2)
- Arcuate A(Renal Transplant2)
- Segmental A(Renal Transplant2)
- Renal Vein 1(Renal Transplant2)
- Renal Vein 2(Renal Transplant2)
- TIPS
- -----
- SMA/Ao
- CA/Ao
- -----
- ABD Stenosis 1
- Pre Sten
- Sten
- Post Sten
- ABD Stenosis 2
- Pre Sten
- Sten
- Post Sten
- ABD Stenosis 3
- Pre Sten
- Sten
- Post Sten
- ABD Stenosis 4
- Pre Sten
- Sten
- Post Sten
- Renal Transplant 1(Doppler)
- Artery Anast(Renal Transplant1)
- Artery Anast 2(Renal Transplant1)
- Vein Anast(Renal Transplant1)
- Vein Anast 2(Renal

- Transplant1)
 - Renal A(Renal Transplant1)
 - Renal A1(Renal Transplant1)
 - Renal A2(Renal Transplant1)
 - Hilum(Renal Transplant1)
 - Interlobar A(Renal Transplant1)
 - Arcuate A(Renal Transplant1)
 - Segmental A(Renal Transplant1)
 - Renal Vein 1(Renal Transplant1)
 - Renal Vein 2(Renal Transplant1)
 - Renal Transplant 2(Doppler)
 - Artery Anast(Renal Transplant2)
 - Artery Anast 2(Renal Transplant2)
- Vein Anast(Renal Transplant2)
- Vein Anast 2(Renal Transplant2)
- Renal A(Renal Transplant2)
- Renal A1(Renal Transplant2)
- Renal A2(Renal Transplant2)
- Hilum(Renal Transplant2)
- Interlobar A(Renal Transplant2)
- Arcuate A(Renal Transplant2)
- Segmental A(Renal Transplant2)
- Renal Vein 1(Renal Transplant2)
- Renal Vein 2(Renal Transplant2)
- Gynecology
- B-Mode

- UT L
- UT H
- UT W
- Endo
- Cervix L
- Cervix H
- Cervix W
- Ovary L
- Ovary H
- Ovary W
- Follicle1 L
- Follicle1 W
- Follicle1 H
- Follicle2 L
- Follicle2 W
- Follicle2 H
- Follicle3 L
- Follicle3 W
- Follicle3 H
- Follicle4 L
- Follicle4 W
- Follicle4 H
- Follicle5 L
- Follicle5 W
- Follicle5 H
- Follicle6 L
- Follicle6 W
- Follicle6 H
- Follicle7 L
- Follicle7 W
- Follicle7 H
- Follicle8 L
- Follicle8 W
- Follicle8 H
- Follicle9 L
- Follicle9 W
- Follicle9 H
- Follicle10 L
- Follicle10 W
- Follicle10 H
- Follicle11 L
- Follicle11 W
- Follicle11 H
- Follicle12 L

- Follicle12 W
- Follicle12 H
- Follicle13 L
- Follicle13 W
- Follicle13 H
- Follicle14 L
- Follicle14 W
- Follicle14 H
- Follicle15 L
- Follicle15 W
- Follicle15 H
- Follicle16 L
- Follicle16 W
- Follicle16 H
- DWT
- BSD(R)
- BSD(Va)
- RVA(R)
- RVA(Va)
- UTA(R)
- UTA(Va)
- URA
- PVA(R)
- PVA(Va)
- PUA(R)
- PUA(Va)
- BPW-SP Dist.(R)
- BPW-SP Dist.(Va)
- Cx-SP Dist.(R)
- Cx-SP Dist.(Va)
- RA-SP Dist.(R)
- RA-SP Dist.(Va)
- Shuttle(R)
- Shuttle(Va)
- Rectocele Depth
- Intus. Depth
- ARA(R)
- ARA(Va)
- ARA(C)
- LH AP Diam(R)
- LH AP Diam(Va)
- LH AP Diam(C)
- LH Lateral Diam(R)
- LH Lateral Diam(Va)

- LH Lateral Diam(C)
- LH Area(R)
- LH Area(Va)
- LH Area(C)
- LA Angle(R)
- LA Angle(Va)
- LA Angle(C)
- LA Thickness(R)
- LA Thickness(Va)
- LA Thickness(C)
- LUG(R)
- LUG(Va)
- LUG(C)
- GYN Lesion1 Strain
- GYN Lesion2 Strain
- GYN Lesion3 Strain
- Lesion1 Elas.
- Lesion2 Elas.
- Lesion3 Elas.
- Fibroid1 Strain
- Fibroid2 Strain
- Fibroid3 Strain
- Fibroid1 Elas.
- Fibroid2 Elas.
- Fibroid3 Elas.
- -----
- UT Vol
- UT SUM
- UT-L/CX-L
- Ovary Vol
- Follicle1
- Follicle2
- Follicle3
- Follicle4
- Follicle5
- Follicle6
- Follicle7
- Follicle8
- Follicle9
- Follicle10
- Follicle11
- Follicle12
- Follicle13
- Follicle14

- Follicle15
- Follicle16
- Mean DWT
- BND
- IAS Damage
- EAS Damage
- -----
- Uterus
- UT L
- UT H
- UT W
- Endo
- Uterine Cervix
- Cervix L
- Cervix H
- Cervix W
- Fibroid 1
- d1
- d2
- d3
- Fibroid 2
- d1
- d2
- d3
- Fibroid 3
- d1
- d2
- d3
- Uterine Finding 1
- d1
- d2
- d3
- Uterine Finding 2
- d1
- d2
- d3
- Uterine Finding 3
- d1
- d2
- d3
- Uterine Finding 4
- d1
- d2
- d3

- Uterine Finding 5
- d1
- d2
- d3
- Uterine Finding 6
- d1
- d2
- d3
- Ovary
- Ovary L
- Ovary H
- Ovary W
- Ovarian Cyst 1
- d1
- d2
- d3
- Ovarian Cyst 2
- d1
- d2
- d3
- Ovarian Cyst 3
- d1
- d2
- d3
- Ovarian Finding 1
- d1
- d2
- d3
- Ovarian Finding 2
- d1
- d2
- d3
- Ovarian Finding 3
- d1
- d2
- d3
- Ovarian Finding 4
- d1
- d2
- d3
- Ovarian Finding 5
- d1
- d2
- d3

- Ovarian Finding 6
- d1
- d2
- d3
- Follicle1
- Follicle1 L
- Follicle1 W
- Follicle1 H
- Follicle2
- Follicle2 L
- Follicle2 W
- Follicle2 H
- Follicle3
- Follicle3 L
- Follicle3 W
- Follicle3 H
- Follicle4
- Follicle4 L
- Follicle4 W
- Follicle4 H
- Follicle5
- Follicle5 L
- Follicle5 W
- Follicle5 H
- Follicle6
- Follicle6 L
- Follicle6 W
- Follicle6 H
- Follicle7
- Follicle7 L
- Follicle7 W
- Follicle7 H
- Follicle8
- Follicle8 L
- Follicle8 W
- Follicle8 H
- Follicle9
- Follicle9 L
- Follicle9 W
- Follicle9 H
- Follicle10
- Follicle10 L
- Follicle10 W
- Follicle10 H

- Follicle11
- Follicle11 L
- Follicle11 W
- Follicle11 H
- Follicle12
- Follicle12 L
- Follicle12 W
- Follicle12 H
- Follicle13
- Follicle13 L
- Follicle13 W
- Follicle13 H
- Follicle14
- Follicle14 L
- Follicle14 W
- Follicle14 H
- Follicle15
- Follicle15 L
- Follicle15 W
- Follicle15 H
- Follicle16
- Follicle16 L
- Follicle16 W
- Follicle16 H
- GYN Lesion 1
- d1
- d2
- d3
- GYN Lesion 2
- d1
- d2
- d3
- GYN Lesion 3
- d1
- d2
- d3
- Residual Urine
- BL Height
- BL Depth
- GYN Lesion1 Strain Ratio
- A
- B
- GYN Lesion2 Strain Ratio
- A

- B
- GYN Lesion3 Strain Ratio
- A
- B
- Lesion1 Elas. Ratio
- A
- B
- Lesion2 Elas. Ratio
- A
- B
- Lesion3 Elas. Ratio
- A
- B
- Fibroid1 Strain Ratio
- A
- B
- Fibroid2 Strain Ratio
- A
- B
- Fibroid3 Strain Ratio
- A
- B
- Fibroid1 Elas. Ratio
- A
- B
- Fibroid2 Elas. Ratio
- A
- B
- Fibroid3 Elas. Ratio
- A
- B
-
- M-Mode
-
- D-Mode
- Obstetrics
- B-Mode
- GS
- YS L
- CRL
- NT
- BPD
- OFD
- HC

- AC
- FL
- TAD
- APAD
- TCD
- CM
- IT
- LVW
- HW
- OOD
- IOD
- HUM
- Ulna
- RAD
- Tibia
- FIB
- CLAV
- Vertebrae
- MP
- Foot
- NBL
- Ear
- APTD
- TTD
- FTA
- THD
- HrtC
- TC
- Umb VD
- F-kidney L
- Mat Kidney
- Cervix L
- AF
- NF
- Orbit
- PL Thickness
- Sac Diam1
- Sac Diam2
- Sac Diam3
- AF1
- AF2
- AF3
- AF4
- LVIDd

- LVIDs
- LV Diam
- LA Diam
- RVIDd
- RVIDs
- RV Diam
- RA Diam
- IVSd
- IVSs
- IVS
- LV Area
- LA Area
- RV Area
- RA Area
- Ao Diam
- MPA Diam
- LVOT Diam
- RVOT Diam
- Facial Angle
- HrtA
- MV Diam(Z-Score)
- PV Diam(Z-Score)
- Ao Asc Diam(Z-Score)
- Ao Desc Diam(Z-Score)
- Duct Art Diam(Z-Score)
- TV Diam(Z-Score)
- LPA Diam(Z-Score)
- RPA Diam(Z-Score)
- IVC Diam(Z-Score)
- AV Diam(Z-Score)
- MPA Diam(Z-Score)
- RV Diam(Z-Score)
- LV Diam(Z-Score)
- RV Area(Z-Score)
- LV Area(Z-Score)
- RVIDd(Z-Score)
- LVIDd(Z-Score)
- UT L
- UT H
- UT W
- Endo
- AH
- PH
- 3th Ventricle

- NT Above Cord
- NT Below Cord
- Mandible
- Prenasal th
- Heart AP
- Heart T
- LV Width
- LV Length
- RV Width
- RV Length
- LA Width
- RA Width
- LVWd
- LVWs
- RVWd
- RVWs
- AV Diam
- AV Area
- PV Area
- F-kidney H
- F-kidney W
- Lung
- Stomach
- YS H
- YS W
- Amniotic Sac L
- Amniotic Sac H
- Amniotic Sac W
- Ovary Cyst L
- Ovary Cyst H
- Ovary Cyst W
- UT AW
- UT PW
- CSP
- FMF
- MMF
- Lung CCAM L
- Lung CCAM H
- Lung CCAM W
- AD
- Lliac Wing Angle
- FAGL
- FAG
- Intestinum Crassum

- Liver Length
- Rib Length
- Shoulder Blade
- -----
- MAD
- Mean Sac Diam
- AFI
- EFW
- EFW2
- HC/AC(Campbell)
- FL/AC
- FL/BPD
- AXT
- CI
- FL/HC(Hadlock)
- AC(c)
- HC(c)
- HrtC/TC
- TCD/AC
- LVW/HW
- LVD/RVD
- LAD/RAD
- AoD/MPAD
- LAD/AoD
- UT Vol
- UT SUM
- UT-L/CX-L
- -----
- AFI
- AF1
- AF2
- AF3
- AF4
- Uterus
- UT L
- UT H
- UT W
- Endo
-
- M-Mode
- FHR (M)
- LVIDd
- LVIDs
- RVIDd

- RVIDs
- IVSd
- IVSs
- RVIDd(Z-Score)
- LVIDd(Z-Score)
- MVE
- TVE
- AVE
- MAPSE
- TAPSE
- LV ICT
- LV IRT
- LV ET
- RV ICT
- RV IRT
- RV ET
-
- D-Mode
- Umb A
- Duct Ven
- Placenta A
- MCA
- Fetal Ao
- Desc Aorta
- Ut A
- Ovarian A
- FHR (Doppler)
- Asc Aorta
- RVOT
- LVOT
- MV E
- MV A
- TV E
- TV A
- MV E'
- MV A'
- MV S'
- TV E'
- TV A'
- TV S'
- AV PV
- AV VTI
- PV PV
- PV VTI

- Duct Art PV
 - Duct Art VTI
 - AV TPV
 - PV TPV
 - Duct Art TPV
 - Thoracic Aorta
 - Hepatic Vein
 - IVC
 - Umb V
 - Ovary
 - Endometrium
 - Cervical Cancer
 - Fibroid
 - Duct Art
 - ICA
 - Celiac A
 - -----
 - MV E/A
 - TV E/A
 - MV E/E'
 - TV E/E'
 - Cardiology
- B-Mode
 - RVAWd(2D)
 - RVAWs(2D)
 - RVDd(2D)
 - RVDs(2D)
 - IVSd(2D)
 - IVSs(2D)
 - LVIDd(2D)
 - LVIDs(2D)
 - LVPWd(2D)
 - LVPWs(2D)
 - Diastole(2D)
 - Systole(2D)
 - LVLd apical
 - LVLs apical
 - LVAd apical
 - LVAs apical
 - LVAd sax MV
 - LVAs sax MV
 - LVAd sax Endo
 - LVAd sax Epi
 - LV Major

- LV Minor
- LV Area(d)
- LV Area(s)
- HR(2D)
- RA Major
- RA Minor
- RA Area
- RA Vol(A4C)
- RAP
- RV Area(d)
- RV Area(s)
- RV Major
- RV Minor
- LA Diam(2D)
- LA Major
- LA Minor
- LA Area
- LVOT Diam
- Ao Diam(2D)
- ACS(2D)
- AV Diam
- Ao Isthmus(2D)
- Ao Sinus Diam(2D)
- Ao st junct(2D)
- AVA
- Ao Arch Diam(2D)
- Ao Asc Diam(2D)
- Ao Desc Diam(2D)
- Duct Art Diam
- Post Ductal
- Pre Ductal
- MCS(2D)
- MV Diam
- MV EPSS(2D)
- MVA
- TV Diam
- TVA
- PV Diam
- RVOT Diam
- MPA Diam(2D)
- RPA Diam(2D)
- LPA Diam(2D)
- IVC Diam(Expir)
- IVC Diam(Insp)

- SVC Diam(Expir)
- SVC Diam(Insp)
- LCA Diam
- RCA Diam
- PEd(2D)
- PEs(2D)
- VSD Diam
- ASD Diam
- PDA Diam
- PFO Diam
- AutoEF
- Rt DT(Insp)
- Rt DT(Expir)
- Lt DT(Insp)
- Lt DT(Expir)
- -----
- LA/Ao(2D)
- -----
- LV(2D)
- Diastole(2D)
- Systole(2D)
- IVSd(2D)
- LVIDd(2D)
- LVPWd(2D)
- IVSs(2D)
- LVIDs(2D)
- LVPWs(2D)
- HR(2D)
- Simpson
- A4Cd
- A4Cs
- A2Cd
- A2Cs
- HR(2D)
- Mod.Simpson
- LVLd apical
- LVLs apical
- LVAd sax MV
- LVAs sax MV
- LVAd sax PM
- LVAs sax PM
- HR(2D)
- S-P Ellipse
- LVLd apical

- LVAd apical
- LVLs apical
- LVAs apical
- HR(2D)
- B-P Ellipse
- LVIDd(2D)
- LVAd sax MV
- LVIDs(2D)
- LVAs sax MV
- LVAd apical
- LVAs apical
- HR(2D)
- Bullet
- LVLd apical
- LVLs apical
- LVAd sax MV
- LVAs sax MV
- HR(2D)
- LV Mass(Cube-2D)
- IVSd(2D)
- LVIDd(2D)
- LVPWd(2D)
- LV Mass(A-L)
- LVLd apical
- LVAd sax Epi
- LVAd sax Endo
- LV Mass(T-E)
- LVAd sax Epi
- LVAd sax Endo
- a
- d
- LA Vol(Simp)
- LA Vol(A2C)
- LA Vol(A4C)
- LA Vol(A-L)
- LA apical
- LAA(A2C)
- LAA(A4C)
- MVA(VTI)
- LVOT Diam
- LVOT VTI
- MV VTI
- AVA(VTI)
- LVOT Diam

- LVOT VTI
- AV VTI
- CO(LVOT)
- LVOT Diam
- LVOT VTI
- AV HR
- CO(RVOT)
- RVOT Diam
- RVOT VTI
- PV HR
- CO(MV)
- MV Diam
- MV VTI
- MV HR
- CO(TV)
- TV Diam
- TV VTI
- TV HR
- PISA MR
- MR Rad
- MR Als Vel
- MR VTI
- PISA AR
- AR Rad
- AR Als Vel
- AR VTI
- PISA TR
- TR Rad
- TR Als Vel
- TR VTI
- PISA PR
- PR Rad
- PR Als Vel
- PR VTI
- Qp/Qs
- LVOT Diam
- LVOT VTI
- RVOT Diam
- RVOT VTI
- Z-Scores ($\leq 3Y$) (2D)
- AV Diam
- Ao Sinus Diam
- Ao st junct
- PV Diam

- Ao Arch IA-LCA
- Ao Arch LCA-LSA
- Ao Arch after LSA
- Ao Isthmus
- Thoracic Ao Diam
- IVC Diam
- MV Diam
- TV Diam
- MPA Diam
- RPA Diam
- LPA Diam
- Z-Scores (<18Y) (2D)
- LV Area(d) A4C
- LV Area(s) A4C
- LVIDd A4C(2D)
- LVIDs A4C(2D)
- LA AP Diam A4C
- LA LL Diam A4C
- LA Area A4C
- RA AP Diam A4C
- RA LL Diam A4C
- RA Area A4C
- RV Area(d) A4C
- RV Area(s) A4C
- RVd Major A4C
- RVs Major A4C
- RVd Minor (basal) A4C
- RVd Minor (midcavity) A4C
- LV Area(d) A2C
- LV Area(s) A2C
- LVIDd A2C(2D)
- LVIDs A2C(2D)
-
- M-Mode
- RVAWd(M)
- RVAWs(M)
- RVDd(M)
- RVDs(M)
- Ao Arch Diam(M)
- Ao Asc Diam(M)
- Ao Desc Diam(M)
- Ao Diam(M)
- Ao Isthmus(M)
- Ao Sinus Diam(M)

- Ao st junct(M)
- ACS(M)
- HR(M)
- IVSd(M)
- IVSs(M)
- LA Diam(M)
- LPA Diam(M)
- Diastole(M)
- Systole(M)
- LVET(M)
- LVIDd(M)
- LVIDs(M)
- LVOT Diam
- LVPEP(M)
- LVPWd(M)
- LVPWs(M)
- MCS(M)
- MPA Diam(M)
- MV A Amp
- MV E Amp
- MV D-E Slope
- MV D-E Amp
- MV E-F Slope
- MV EPSS(M)
- PEd(M)
- PEs(M)
- RPA Diam(M)
- RVET(M)
- RVOT Diam
- RVPEP(M)
- MAPSE
- TAPSE
- MV ALL
- IVC Diam(Insp)(M)
- IVC Diam(Expir)(M)
- SVC Diam(Insp)(M)
- SVC Diam(Expir)(M)
- Rt DT(Insp M)
- Rt DT(Expir M)
- Lt DT(Insp M)
- Lt DT(Expir M)
- RDE(QB)
- RDE(DB)
- LDE(QB)

- LDE(DB)
- -----
- LA/Ao(M)
- -----
- LV(M)
- Diastole(M)
- Systole(M)
- IVSd(M)
- LVIDd(M)
- LVPWd(M)
- IVSs(M)
- LVIDs(M)
- LVPWs(M)
- HR(M)
- LV Mass(Cube-M)
- IVSd(M)
- LVIDd(M)
- LVPWd(M)
- LV Tei Index(M)
- MV C-O dur(M)
- LVET(M)
- Z-Scores ($\leq 3Y$) (M)
- IVSd(M)
- LVPWd(M)
- Z-Scores (<18Y) (M)
- LVIDd(M)
- LVIDs(M)
-
- D-Mode
- MV Aa(lateral)
- MV Aa(medial)
- AAO Vmax
- AV VTI
- AV HR
- AV Vmax
- AR DecT
- AR Time
- AR PHT
- AR Ved
- AR Vmax
- AR VTI
- MV ARa(lateral)
- MV ARa(medial)
- ASD Vmax

- AV AccT
- AV DecT
- Coarc Post-Duct
- Coarc Pre-Duct
- DAo Vmax
- MV DRa(lateral)
- MV DRa(medial)
- MV Ea(lateral)
- MV Ea(medial)
- IVC Vel(Expir)
- IVC Vel(Insp)
- IVCT
- LPA Vmax
- LVET(Doppler)
- LVOT AccT
- LVOT VTI
- LVOT Vmax
- LVPEP(Doppler)
- MPA Vmax
- dP/dt
- Tau(BAI)
- MR VTI
- MR Vmax
- MS Vmax
- MV A Dur
- MV A Vel
- MV A VTI
- MV AccT
- MV DecT
- MV E Dur
- MV E Vel
- MV E VTI
- IVRT
- MV VTI
- MV HR
- MV Vmax
- PVein A Dur
- PVein A Vel
- PVein D Vel
- PVein D VTI
- PVein DecT
- PVein S Vel
- PVein S VTI
- PDA Vel(d)

- PDA Vel(s)
- PR PHT
- PR VTI
- PR Ved
- PR Vmax
- PR DecT
- PV AccT
- PV VTI
- PV HR
- PV Vmax
- RAP
- RPA Vmax
- RVET(Doppler)
- RVOT Vmax
- RVOT VTI
- RVPEP(Doppler)
- MV Sa(lateral)
- MV Sa(medial)
- SVC Vel(Expir)
- SVC Vel(Insp)
- TR VTI
- TR Vmax
- TV A Dur
- TV A Vel
- TV AccT
- TV DecT
- TV E Vel
- TV VTI
- TV HR
- TV Vmax
- VSD Vmax
- Hepatic V S Vel
- Hepatic V D Vel
- -----
- MV E/A
- MVA(PHT)
- TV E/A
- TVA(PHT)
- -----
- LV Tei Index(Doppler)
- MV C-O dur(Doppler)
- LVET(Doppler)
- RVSP
- TR Vmax

- RAP
- PAEDP
- PR Ved
- RAP
- MVA(VTI)
- LVOT Diam
- LVOT VTI
- MV VTI
- AVA(VTI)
- LVOT Diam
- LVOT VTI
- AV VTI
- CO(LVOT)
- LVOT Diam
- LVOT VTI
- AV HR
- CO(RVOT)
- RVOT Diam
- RVOT VTI
- PV HR
- CO(MV)
- MV Diam
- MV VTI
- MV HR
- CO(TV)
- TV Diam
- TV VTI
- TV HR
- RV Tei Index
- TV C-O dur
- RVET(Doppler)
- PISA MR
- MR Rad
- MR Als Vel
- MR VTI
- PISA AR
- AR Rad
- AR Als Vel
- AR VTI
- PISA TR
- TR Rad
- TR Als Vel
- TR VTI
- PISA PR

- PR Rad
- PR Als Vel
- PR VTI
- Qp/Qs
- LVOT Diam
- LVOT VTI
- RVOT Diam
- RVOT VTI
- Urology
 - B-Mode
 - Renal L
 - Renal H
 - Renal W
 - Cortex
 - Adrenal L
 - Adrenal H
 - Adrenal W
 - Ureter
 - Cortex(Renal Transplant1)
 - Renal V Diam(Renal Transplant1)
 - Ureter Diam(Renal Transplant1)
 - Cortex(Renal Transplant2)
 - Renal V Diam(Renal Transplant2)
 - Ureter Diam(Renal Transplant2)
 - Prostate L
 - Prostate H
 - Prostate W
 - Seminal L
 - Seminal H
 - Seminal W
 - Urethra
 - Pre-BL L
 - Pre-BL H
 - Pre-BL W
 - Post-BL L
 - Post-BL H
 - Post-BL W
 - Testicular L
 - Testicular H
 - Testicular W
 - Epididymis L
 - Epididymis H

- Epididymis W
- Scrotal Wall
- Testis V(2D)
- Testis V(Valsalva 2D)
- Prostate Mass1 Strain
- Prostate Mass2 Strain
- Prostate Mass3 Strain
- Prostate Mass1 Elas.
- Prostate Mass2 Elas.
- Prostate Mass3 Elas.
- -----
- Renal Vol
- Prostate Vol
- Pre-BL Vol
- Post-BL Vol
- Mictur.Vol
- Testicular Vol
- -----
- Kidney
- Renal L
- Renal H
- Renal W
- Cortex
- Adrenal
- Adrenal L
- Adrenal H
- Adrenal W
- Renal Lesion 1
- d1
- d2
- d3
- Renal Lesion 2
- d1
- d2
- d3
- Renal Lesion 3
- d1
- d2
- d3
- Renal Cyst 1
- d1
- d2
- d3
- Renal Cyst 2

- d1
- d2
- d3
- Renal Cyst 3
- d1
- d2
- d3
- Kidney(Superior)
- H
- W
- Kidney(Mid)
- H
- W
- Kidney(Inferior)
- H
- W
- Renal A
- Long
- Anterior-Posterior
- Transverse
- Renal A Aneurysm
- Long
- Anterior-Posterior
- Transverse
- Kidney(Renal Transplant1)
- L
- H
- W
- Adrenal(Renal Transplant1)
- L
- H
- W
- Finding 1(Renal Transplant1)
- L
- H
- W
- Finding 2(Renal Transplant1)
- L
- H
- W
- Finding 3(Renal Transplant1)
- L
- H
- W

- Finding 4(Renal Transplant1)

- L

- H

- W

- Finding 5(Renal Transplant1)

- L

- H

- W

- Finding 6(Renal Transplant1)

- L

- H

- W

- Renal Transplant 1(2D)

- Cortex(Renal Transplant1)

- Renal V Diam(Renal
Transplant1)

- Ureter Diam(Renal
Transplant1)

- Kidney(Renal Transplant1)

- L

- H

- W

- Adrenal(Renal Transplant1)

- L

- H

- W

- Finding 1(Renal
Transplant1)

- L

- H

- W

- Finding 2(Renal
Transplant1)

- L

- H

- W

- Finding 3(Renal
Transplant1)

- L

- H

- W

- Finding 4(Renal
Transplant1)

- L

- H
- W
- Finding 5(Renal Transplant1)
- L
- H
- W
- Finding 6(Renal Transplant1)
- L
- H
- W
- Kidney(Renal Transplant2)
- L
- H
- W
- Adrenal(Renal Transplant2)
- L
- H
- W
- Finding 1(Renal Transplant2)
- L
- H
- W
- Finding 2(Renal Transplant2)
- L
- H
- W
- Finding 3(Renal Transplant2)
- L
- H
- W
- Finding 4(Renal Transplant2)
- L
- H
- W
- Finding 5(Renal Transplant2)
- L
- H
- W
- Finding 6(Renal Transplant2)
- L
- H
- W

- Renal Transplant 2(2D)	- H
- Cortex(Renal Transplant2)	- W
- Renal V Diam(Renal Transplant2)	- Finding 3(Renal Transplant2)
- Ureter Diam(Renal Transplant2)	- L
- Kidney(Renal Transplant2)	- H
- L	- W
- H	- Finding 4(Renal Transplant2)
- W	- L
- Adrenal(Renal Transplant2)	- H
- L	- W
- H	- Finding 5(Renal Transplant2)
- W	- L
- Finding 1(Renal Transplant2)	- H
- L	- W
- H	- Finding 6(Renal Transplant2)
- W	- L
- Finding 2(Renal Transplant2)	- H
- L	- W

- Prostate
- Prostate L
- Prostate H
- Prostate W
- Prostate2
- Long
- Anterior-Posterior
- Coronal
- Seminal Vesicle
- Seminal L
- Seminal H
- Seminal W
- Prostate Mass 1
- d1
- d2
- d3
- Prostate Mass 2
- d1
- d2
- d3
- Prostate Mass 3
- d1
- d2
- d3
- Bladder
- Pre-BL L
- Pre-BL H
- Pre-BL W
- Post-BL L
- Post-BL H
- Post-BL W
- Testis
- Testicular L
- Testicular H
- Testicular W
- Testis Mass 1
- d1
- d2
- d3
- Testis Mass 2
- d1
- d2
- d3
- Testis Mass 3

- d1
- d2
- d3
- Epididymis
- Epididymis L
- Epididymis H
- Epididymis W
- Testicle(Superior)
- H
- W
- Testicle(Mid)
- H
- W
- Testicle(Inferior)
- H
- W
- Epididymal Head
- L
- H
- W
- Epididymal Body
- L
- H
- W
- Epididymal Tail
- L
- H
- W
- Prostate Mass1 Strain Ratio
- A
- B
- Prostate Mass2 Strain Ratio
- A
- B
- Prostate Mass3 Strain Ratio
- A
- B
- Prostate Mass1 Elas. Ratio
- A
- B
- Prostate Mass2 Elas. Ratio
- A
- B
- Prostate Mass3 Elas. Ratio

- A
- B
-
- M-Mode
-
- D-Mode
- Renal A
- Ren A Org
- M Renal A
- Renal A1
- Renal A2
- Hilum
- Interlobar A
- Arcuate A
- Segment A
- Artery Anast(Renal Transplant1)
- Artery Anast 2(Renal Transplant1)
- Vein Anast(Renal Transplant1)
- Vein Anast 2(Renal Transplant1)
- Renal A(Renal Transplant1)
- Renal A1(Renal Transplant1)
- Renal A2(Renal Transplant1)
- Hilum(Renal Transplant1)
- Interlobar A(Renal Transplant1)
- Arcuate A(Renal Transplant1)
- Segmental A(Renal Transplant1)
- Renal Vein 1(Renal Transplant1)
- Renal Vein 2(Renal Transplant1)
- Artery Anast(Renal Transplant2)
- Artery Anast 2(Renal Transplant2)
- Vein Anast(Renal Transplant2)
- Vein Anast 2(Renal Transplant2)
- Renal A(Renal Transplant2)
- Renal A1(Renal Transplant2)
- Renal A2(Renal Transplant2)
- Hilum(Renal Transplant2)
- Interlobar A(Renal Transplant2)
- Arcuate A(Renal Transplant2)
- Segmental A(Renal Transplant2)
- Renal Vein 1(Renal Transplant2)
- Renal Vein 2(Renal Transplant2)
- Testis A

- Testis V
- Testis V(Valsalva)
- Epididymis A
- Epididymis V
- -----
- Renal Transplant 1(Doppler)
- Artery Anast(Renal Transplant1)
- Artery Anast 2(Renal Transplant1)
- Vein Anast(Renal Transplant1)
- Vein Anast 2(Renal Transplant1)
- Renal A(Renal Transplant1)
- Renal A1(Renal Transplant1)
- Renal A2(Renal Transplant1)
- Hilum(Renal Transplant1)
- Interlobar A(Renal Transplant1)
- Arcuate A(Renal Transplant1)
- Segmental A(Renal Transplant1)
- Renal Vein 1(Renal Transplant1)
- Renal Vein 2(Renal Transplant1)
- Renal Transplant 2(Doppler)
- Artery Anast(Renal Transplant2)
- Artery Anast 2(Renal Transplant2)
- Vein Anast(Renal Transplant2)
- Vein Anast 2(Renal Transplant2)
- Renal A(Renal Transplant2)
- Renal A1(Renal Transplant2)
- Renal A2(Renal Transplant2)

- Hilum(Renal Transplant2)
- Interlobar A(Renal Transplant2)
- Arcuate A(Renal Transplant2)
- Segmental A(Renal Transplant2)
- Renal Vein 1(Renal Transplant2)
- Renal Vein 2(Renal Transplant2)
- Vascular
 - B-Mode
 - CCA IMT
 - Bulb IMT
 - ICA IMT
 - ECA IMT
 - -----
 - IMT
 - CCA IMT
 - Bulb IMT
 - ICA IMT
- ECA IMT
- CCA
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area
- Bulb
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area
- Carotid Bifurcation
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area

- ICA
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area
- ECA
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area
- Vert A
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area
- Subclav A
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area
- Innom A
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area
- Mammary A
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area
- CCA Aneurysm
- Long

- Anterior-Posterior
- Transverse
- Bulb Aneurysm
- Long
- Anterior-Posterior
- Transverse
- Carotid Bifurcation Aneurysm
- Long
- Anterior-Posterior
- Transverse
- ICA Aneurysm
- Long
- Anterior-Posterior
- Transverse
- ECA Aneurysm
- Long
- Anterior-Posterior
- Transverse
- Vert A Aneurysm
- Long
- Anterior-Posterior
- Transverse
- Subclav A Aneurysm
- Long
- Anterior-Posterior
- Transverse
- Innom A Aneurysm
- Long
- Anterior-Posterior
- Transverse
- Mammary A Aneurysm
- Long
- Anterior-Posterior
- Transverse
- Carotid Graft 1 Anast
- Long
- Anterior-Posterior
- Transverse
- Carotid Graft 1 Graft
- Long
- Anterior-Posterior
- Transverse
- Carotid Graft 2 Anast
- Long

- Anterior-Posterior
- Transverse
- Carotid Graft 2 Graft
- Long
- Anterior-Posterior
- Transverse
- Carotid Graft 3 Anast
- Long
- Anterior-Posterior
- Transverse
- Carotid Graft 3 Graft
- Long
- Anterior-Posterior
- Transverse
- Carotid Stent 1
- Long
- Anterior-Posterior
- Transverse
- Carotid Stent 2
- Long
- Anterior-Posterior
- Transverse
- Carotid Stent 3
- Long
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area
- Carotid Stenosis 2
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area
- Carotid Stenosis 3
- Anterior-Posterior
- Transverse
- Outer Diameter

- Inner Diameter
- Outer Area
- Inner Area
- Carotid Stenosis 4
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area
- Axill A
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area
- Brachial A
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area
- Radial A
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area
- Ulnar A
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area
- Axill A Aneurysm
- Long
- Anterior-Posterior
- Transverse
- Brachial A Aneurysm
- Long

- Anterior-Posterior
- Transverse
- Radial A Aneurysm
- Long
- Anterior-Posterior
- Transverse
- Ulnar A Aneurysm
- Long
- Anterior-Posterior
- Transverse
- UE A Graft 1 Native Inflow
- Anterior-Posterior
- Transverse
- UE A Graft 1 Anast
- Anterior-Posterior
- Transverse
- UE A Graft 1 Graft
- Anterior-Posterior
- Transverse
- UE A Graft 1 Native Outflow
- Anterior-Posterior
- Transverse
- UE A Graft 2 Native Inflow
- Anterior-Posterior
- Transverse
- UE A Graft 2 Anast
- Anterior-Posterior
- Transverse
- UE A Graft 2 Graft
- Anterior-Posterior
- Transverse
- UE A Graft 2 Native Outflow
- Anterior-Posterior
- Transverse
- UE A Graft 3 Native Inflow
- Anterior-Posterior
- Transverse
- UE A Graft 3 Anast
- Anterior-Posterior
- Transverse
- UE A Graft 3 Graft
- Anterior-Posterior
- Transverse
- UE A Graft 3 Native Outflow

- Anterior-Posterior
- Transverse
- UE A Stent 1
- Long
- Anterior-Posterior
- Transverse
- UE A Stent 2
- Long
- Anterior-Posterior
- Transverse
- UE A Stent 3
- Long
- Anterior-Posterior
- Transverse
- UE A Stenosis 1(2D)
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area
- UE A Stenosis 2(2D)
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area
- UE A Stenosis 3(2D)
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area
- UE A Stenosis 4(2D)
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area
- C.Iliac A
- Anterior-Posterior

- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area
- Ex.Iliac A
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area
- IIA
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area
- CFA
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area
- DFA
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area
- SFA
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area
- Pop A
- Anterior-Posterior
- Transverse
- Outer Diameter

- Inner Diameter
- Outer Area
- Inner Area
- TP Trunk A
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area
- A.Tib A
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area
- Peroneal A
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area
- P.Tib A
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area
- Dors.Ped. A
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area
- C.Iliac A Aneurysm
- Long
- Anterior-Posterior
- Transverse
- Ex.Iliac A Aneurysm
- Long

- Anterior-Posterior
- Transverse
- IIA Aneurysm
- Long
- Anterior-Posterior
- Transverse
- CFA Aneurysm
- Long
- Anterior-Posterior
- Transverse
- DFA Aneurysm
- Long
- Anterior-Posterior
- Transverse
- SFA Aneurysm
- Long
- Anterior-Posterior
- Transverse
- Pop A Aneurysm
- Long
- Anterior-Posterior
- Transverse
- TP Trunk A Aneurysm
- Long
- Anterior-Posterior
- Transverse
- A.Tib A Aneurysm
- Long
- Anterior-Posterior
- Transverse
- Peroneal A Aneurysm
- Long
- Anterior-Posterior
- Transverse
- P.Tib A Aneurysm
- Long
- Anterior-Posterior
- Transverse
- Dors.Ped. A Aneurysm
- Long
- Anterior-Posterior
- Transverse
- LE A Graft 1 Native Inflow
- Anterior-Posterior

- Transverse
- LE A Graft 1 Anast
- Anterior-Posterior
- Transverse
- LE A Graft 1 Graft
- Anterior-Posterior
- Transverse
- LE A Graft 1 Native Outflow
- Anterior-Posterior
- Transverse
- LE A Graft 2 Native Inflow
- Anterior-Posterior
- Transverse
- LE A Graft 2 Anast
- Anterior-Posterior
- Transverse
- LE A Graft 2 Graft
- Anterior-Posterior
- Transverse
- LE A Graft 2 Native Outflow
- Anterior-Posterior
- Transverse
- LE A Graft 3 Native Inflow
- Anterior-Posterior
- Transverse
- LE A Graft 3 Anast
- Anterior-Posterior
- Transverse
- LE A Graft 3 Graft
- Anterior-Posterior
- Transverse
- LE A Graft 3 Native Outflow
- Anterior-Posterior
- Transverse
- LE A Stent 1
- Long
- Anterior-Posterior
- Transverse
- LE A Stent 2
- Long
- Anterior-Posterior
- Transverse
- LE A Stent 3
- Long

- Anterior-Posterior
- Transverse
- LE A Stenosis 1(2D)
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area
- LE A Stenosis 2(2D)
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area
- LE A Stenosis 3(2D)
- Anterior-Posterior
- Transverse
- Outer Diameter
- Inner Diameter
- Outer Area
- Inner Area
- LE A Finding 1
- Long
- Anterior-Posterior
- Transverse
- LE A Finding 2
- Long
- Anterior-Posterior
- Transverse
- LE A Finding 3
- Long
- Anterior-Posterior
- Transverse
- LE A Finding 4
- Long

- Anterior-Posterior
- Transverse
- LE A Finding 5
- Long
- Anterior-Posterior
- Transverse
- LE A Finding 6
- Long
- Anterior-Posterior
- Transverse
- Int Jug V
- Anterior-Posterior
- Transverse
- Checklist
- Innom V
- Anterior-Posterior
- Transverse
- Checklist
- Subclav V
- Anterior-Posterior
- Transverse
- Checklist
- Ax V
- Anterior-Posterior
- Transverse
- Checklist
- Brachial V
- Anterior-Posterior
- Transverse
- Checklist
- Radial V
- Anterior-Posterior
- Transverse
- Checklist
- Ulnar V
- Anterior-Posterior
- Transverse
- Checklist
- Volar V
- Anterior-Posterior
- Transverse
- Checklist
- Cephalic V
- Anterior-Posterior

- Transverse
- Checklist
- Basilic V
- Anterior-Posterior
- Transverse
- Checklist
- CA Junction
- Anterior-Posterior
- Transverse
- Checklist
- Upper Arm Cephalic V
- Anterior-Posterior
- Transverse
- Checklist
- Cephalic-Antecubital V
- Anterior-Posterior
- Transverse
- Checklist
- Forearm Cephalic V
- Anterior-Posterior
- Transverse
- Checklist
- BA Junction
- Anterior-Posterior
- Transverse
- Checklist
- Upper Arm Basilic V
- Anterior-Posterior
- Transverse
- Checklist
- Basilic-Antecubital V
- Anterior-Posterior
- Transverse
- Checklist
- Forearm Basilic V
- Anterior-Posterior
- Transverse
- Checklist
- Digital V
- Anterior-Posterior
- Transverse
- Checklist
- Median Cubital V
- Anterior-Posterior

- Transverse
- Checklist
- AVF-Inflow Artery
- Anterior-Posterior
- Transverse
- AVF-Anast
- Anterior-Posterior
- Transverse
- AVF-Outflow Vein Level 1
- Anterior-Posterior
- Transverse
- AVF-Outflow Vein Level 2
- Anterior-Posterior
- Transverse
- AVF-Outflow Vein Level 3
- Anterior-Posterior
- Transverse
- AVF-Outflow Vein Level 4
- Anterior-Posterior
- Transverse
- AVF-Outflow Vein Level 5
- Anterior-Posterior
- Transverse
- AVF-Outflow Vein Level 6
- Anterior-Posterior
- Transverse
- AVF-Stenosis 1
- Anterior-Posterior
- Transverse
- AVF-Stenosis 2
- Anterior-Posterior
- Transverse
- AVF-Stenosis 3
- Anterior-Posterior
- Transverse
- AVF-Aneurysm 1
- Anterior-Posterior
- Transverse
- AVF-Aneurysm 2
- Anterior-Posterior
- Transverse
- AVF-Aneurysm 3
- Anterior-Posterior
- Transverse

- AV Graft-Inflow Artery
- Anterior-Posterior
- Transverse
- AV Graft-Arterial Anast
- Anterior-Posterior
- Transverse
- AV Graft-Graft
- Anterior-Posterior
- Transverse
- AV Graft-Venous Anast
- Anterior-Posterior
- Transverse
- AV Graft-Outflow Vein Level 1
- Anterior-Posterior
- Transverse
- AV Graft-Outflow Vein Level 2
- Anterior-Posterior
- Transverse
- AV Graft-Outflow Vein Level 3
- Anterior-Posterior
- Transverse
- AV Graft-Outflow Vein Level 4
- Anterior-Posterior
- Transverse
- AV Graft-Outflow Vein Level 5
- Anterior-Posterior
- Transverse
- AV Graft-Outflow Vein Level 6
- Anterior-Posterior
- Transverse
- C.Iliac V
- Anterior-Posterior
- Transverse
- Checklist
- Ex.Iliac V
- Anterior-Posterior
- Transverse
- Checklist
- IIV
- Anterior-Posterior
- Transverse
- Checklist
- CFV
- Anterior-Posterior

- Transverse
- Checklist
- Femoral V
- Anterior-Posterior
- Transverse
- Checklist
- DFV
- Anterior-Posterior
- Transverse
- Checklist
- Pop V
- Anterior-Posterior
- Transverse
- Checklist
- P.Tib V
- Anterior-Posterior
- Transverse
- Checklist
- Peroneal V
- Anterior-Posterior
- Transverse
- Checklist
- Sural V
- Anterior-Posterior
- Transverse
- Checklist
- Soleal V
- Anterior-Posterior
- Transverse
- Checklist
- A.Tib V
- Anterior-Posterior
- Transverse
- Checklist
- TP Trunk V
- Anterior-Posterior
- Transverse
- Checklist
- Saph V
- Anterior-Posterior
- Transverse
- Checklist
- SSV
- Anterior-Posterior

- Transverse
- Checklist
- SF Junction
- Anterior-Posterior
- Transverse
- Checklist
- GSV Thigh
- Anterior-Posterior
- Transverse
- Checklist
- GSV Knee
- Anterior-Posterior
- Transverse
- Checklist
- GSV Calf
- Anterior-Posterior
- Transverse
- Checklist
- SP Junction
- Anterior-Posterior
- Transverse
- Checklist
- SSV Thigh Extension
- Anterior-Posterior
- Transverse
- Checklist
- AASV
- Anterior-Posterior
- Transverse
- Checklist
- PASV
- Anterior-Posterior
- Transverse
- Checklist
- Thigh Perf
- Anterior-Posterior
- Transverse
- Checklist
- Prox Calf Perf
- Anterior-Posterior
- Transverse
- Checklist
- Mid Calf Perf
- Anterior-Posterior

- Transverse
- Checklist
- Dist Calf Perf
- Anterior-Posterior
- Transverse
- Checklist
- Pseudoaneurysm
- Long
- Anterior-Posterior
- Transverse
- Neck
-
- M-Mode
-
- D-Mode
- ACA
- A1 ACA
- MCA
- M1 MCA
- M2 MCA
- AComA
- Terminal ICA
- PComA
- PCA
- P1 PCA
- P2 PCA
- Ophthalmic A
- ICA Siphon
- Terminal Vert A
- BA
- Ba V
- CCA
- ICA
- ECA
- Bulb
- Carotid Bifurcation
- Vert A
- Subclav A
- Innom A
- Mammary A
- Subclav V
- CCA Aneurysm
- ICA Aneurysm
- ECA Aneurysm

- Bulb Aneurysm
- Carotid Bifurcation Aneurysm
- Vert A Aneurysm
- Subclav A Aneurysm
- Innom A Aneurysm
- Mammary A Aneurysm
- Carotid Graft 1 Native Inflow
- Carotid Graft 1 Anast Pre
- Carotid Graft 1 Anast Max
- Carotid Graft 1 Anast Post
- Carotid Graft 1 Graft
- Carotid Graft 1 Native Outflow
- Carotid Graft 2 Native Inflow
- Carotid Graft 2 Anast Pre
- Carotid Graft 2 Anast Max
- Carotid Graft 2 Anast Post
- Carotid Graft 2 Graft
- Carotid Graft 2 Native Outflow
- Carotid Graft 3 Native Inflow
- Carotid Graft 3 Anast Pre
- Carotid Graft 3 Anast Max
- Carotid Graft 3 Anast Post
- Carotid Graft 3 Graft
- Carotid Graft 3 Native Outflow
- Carotid Stent 1
- Carotid Stent 2
- Carotid Stent 3
- Axill A
- Brachial A
- Ulnar A
- Radial A
- UE A Graft 1 Native Inflow
- UE A Graft 1 Anast
- UE A Graft 1 Graft
- UE A Graft 1 Native Outflow
- UE A Graft 2 Native Inflow
- UE A Graft 2 Anast
- UE A Graft 2 Graft
- UE A Graft 2 Native Outflow
- UE A Graft 3 Native Inflow
- UE A Graft 3 Anast
- UE A Graft 3 Graft
- UE A Graft 3 Native Outflow
- UE A Stent 1

- UE A Stent 2
- UE A Stent 3
- C.Iliac A
- Ex.Iliac A
- IIA
- CFA
- DFA
- SFA
- Pop A
- TP Trunk A
- A.Tib A
- Peroneal A
- P.Tib A
- Dors.Ped. A
- LE A Graft 1 Native Inflow
- LE A Graft 1 Anast Pre
- LE A Graft 1 Anast Max
- LE A Graft 1 Anast Post
- LE A Graft 1 Graft
- LE A Graft 1 Native Outflow
- LE A Graft 2 Native Inflow
- LE A Graft 2 Anast Pre
- LE A Graft 2 Anast Max
- LE A Graft 2 Anast Post
- LE A Graft 2 Graft
- LE A Graft 2 Native Outflow
- LE A Graft 3 Native Inflow
- LE A Graft 3 Anast Pre
- LE A Graft 3 Anast Max
- LE A Graft 3 Anast Post
- LE A Graft 3 Graft
- LE A Graft 3 Native Outflow
- LE A Stent 1
- LE A Stent 2
- LE A Stent 3
- Axill V
- Brachial V
- Radial V
- Ulnar V
- Cephalic V
- Basilic V
- AVF-Inflow Artery
- AVF-Anast
- AVF-Outflow Vein Level 1

- AVF-Outflow Vein Level 2	- Pre Sten
- AVF-Outflow Vein Level 3	- Sten
- AVF-Outflow Vein Level 4	- Post Sten
- AVF-Outflow Vein Level 5	- ICA(Sten)
- AVF-Outflow Vein Level 6	- Pre Sten
- AVF-Stenosis 1	- Sten
- AVF-Stenosis 2	- Post Sten
- AVF-Stenosis 3	- ECA(Sten)
- AV Graft-Inflow Artery	- Pre Sten
- AV Graft-Arterial Anast	- Sten
- AV Graft-Graft	- Post Sten
- AV Graft-Venous Anast	- Bulb(Sten)
- AV Graft-Outflow Vein Level 1	- Pre Sten
- AV Graft-Outflow Vein Level 2	- Sten
- AV Graft-Outflow Vein Level 3	- Post Sten
- AV Graft-Outflow Vein Level 4	- Carotid Bifurcation(Sten)
- AV Graft-Outflow Vein Level 5	- Pre Sten
- AV Graft-Outflow Vein Level 6	- Sten
- ASP	- Post Sten
- BSP	- Vert A(Sten)
- -----	- Pre Sten
- CCA(Sten)	- Sten

- Post Sten
- Subclav A(Sten)
- Pre Sten
- Sten
- Post Sten
- Innom A(Sten)
- Pre Sten
- Sten
- Post Sten
- Mammary A(Sten)
- Pre Sten
- Sten
- Post Sten
- Carotid Stenosis 1
- Pre Sten
- Sten
- Post Sten
- Carotid Stenosis 2
- Pre Sten
- Sten
- Post Sten
- Carotid Stenosis 3
- Pre Sten
- Sten
- Post Sten
- Carotid Stenosis 4
- Pre Sten
- Sten
- Post Sten
- Axill A(Sten)
- Pre Sten
- Sten
- Post Sten
- Brachial A(Sten)
- Pre Sten
- Sten
- Post Sten
- Ulnar A(Sten)
- Pre Sten
- Sten
- Post Sten
- Radial A(Sten)
- Pre Sten
- Sten

- Post Sten
- UE A Stenosis 1
- Pre Sten
- Sten
- Post Sten
- UE A Stenosis 2
- Pre Sten
- Sten
- Post Sten
- UE A Stenosis 3
- Pre Sten
- Sten
- Post Sten
- UE A Stenosis 4
- Pre Sten
- Sten
- Post Sten
- C.Iliac A(Sten)
- Pre Sten
- Sten
- Post Sten
- Ex.Iliac A(Sten)
- Pre Sten
- Sten
- Post Sten
- IIA(Sten)
- Pre Sten
- Sten
- Post Sten
- CFA(Sten)
- Pre Sten
- Sten
- Post Sten
- DFA(Sten)
- Pre Sten
- Sten
- Post Sten
- SFA(Sten)
- Pre Sten
- Sten
- Post Sten
- Pop A(Sten)
- Pre Sten
- Sten

- Post Sten
- TP Trunk A(Sten)
- Pre Sten
- Sten
- Post Sten
- A.Tib A(Sten)
- Pre Sten
- Sten
- Post Sten
- Peroneal A(Sten)
- Pre Sten
- Sten
- Post Sten
- P.Tib A(Sten)
- Pre Sten
- Sten
- Post Sten
- Dors.Ped. A(Sten)
- Pre Sten
- Sten
- Post Sten
- LE A Stenosis 1
- Pre Sten
- Sten
- Post Sten
- LE A Stenosis 2
- Pre Sten
- Sten
- Post Sten
- LE A Stenosis 3
- Pre Sten
- Sten
- Post Sten
- LE A Stenosis 4
- Pre Sten
- Sten
- Post Sten
- C.Iliac V
- PV
- Reflux
- Checklist
- Ex.Iliac V
- PV
- Reflux

- Checklist
- IIV
- PV
- Reflux
- Checklist
- CFV
- PV
- Reflux
- Checklist
- Femoral V
- PV
- Reflux
- Checklist
- DFV
- PV
- Reflux
- Checklist
- Pop V
- PV
- Reflux
- Checklist
- P.Tib V
- PV
- Reflux
- Checklist
- Peroneal V
- PV
- Reflux
- Checklist
- Sural V
- PV
- Reflux
- Checklist
- Soleal V
- PV
- Reflux
- Checklist
- A.Tib V
- PV
- Reflux
- Checklist
- TP Trunk V
- PV
- Reflux

- Checklist
- Saph V
- PV
- Reflux
- Checklist
- SSV
- PV
- Reflux
- Checklist
- SF Junction
- PV
- Reflux
- Checklist
- GSV Thigh
- PV
- Reflux
- Checklist
- GSV Knee
- PV
- Reflux
- Checklist
- GSV Calf
- PV
- Reflux
- Checklist
- SSV Thigh Extension
- PV
- Reflux
- Checklist
- AASV
- PV
- Reflux
- Checklist
- PASV
- PV
- Reflux
- Checklist
- Thigh Perf
- PV
- Reflux

- Checklist
- Prox Calf Perf
- PV
- Reflux
- Checklist
- Mid Calf Perf
- PV
- Reflux
- Checklist
- Dist Calf Perf
- PV
- Reflux
- Checklist
- ABI
- ASP
- BSP
- Small Parts
 - B-Mode
 - Thyroid L
 - Thyroid H
 - Thyroid W
 - Isthmus H
- THY Nodule1 Strain
- THY Nodule2 Strain
- THY Nodule3 Strain
- THY Nodule1 Elas.
- THY Nodule2 Elas.
- THY Nodule3 Elas.
- Breast Mass1 Strain
- Breast Mass1 Elas.
- Breast Mass2 Strain
- Breast Mass2 Elas.
- Breast Mass3 Strain
- Breast Mass3 Elas.
- Breast Mass4 Strain
- Breast Mass4 Elas.
- Breast Mass5 Strain
- Breast Mass5 Elas.
- Breast Mass6 Strain
- Breast Mass6 Elas.
- Breast Mass7 Strain
- Breast Mass7 Elas.
- Breast Mass8 Strain
- Breast Mass8 Elas.

- Breast Mass9 Strain
- Breast Mass9 Elas.
- Breast Mass10 Strain
- Breast Mass10 Elas.
- Testicular L
- Testicular H
- Testicular W
- Epididymis L
- Epididymis H
- Epididymis W
- Scrotal Wall
- Testis V(2D)
- Testis V(Valsalva 2D)
- -----
- Thyroid Vol
- Testicular Vol
- -----
- Thyroid(Superior)
- Anterior-Posterior
- Transverse
- Thyroid(Mid)
- Anterior-Posterior
- Transverse
- Thyroid(Inferior)
- Anterior-Posterior
- Transverse
- Parathyroid 1
- Long
- Anterior-Posterior
- Transverse
- Parathyroid 2
- Long
- Anterior-Posterior
- Transverse
- Parotid
- Long
- Anterior-Posterior
- Transverse
- Lymph Node 1
- Long
- Anterior-Posterior
- Transverse
- Lymph Node 2
- Long

- Anterior-Posterior
- Transverse
- Lymph Node 3
- Long
- Anterior-Posterior
- Transverse
- Lymph Node 4
- Long
- Anterior-Posterior
- Transverse
- Lymph Node 5
- Long
- Anterior-Posterior
- Transverse
- Lymph Node 6
- Long
- Anterior-Posterior
- Transverse
- Thyroid
- Thyroid L
- Thyroid H
- Thyroid W
- Thyroid Nodule 1
- Long
- Anterior-Posterior
- Transverse
- Thyroid Nodule 2
- Long
- Anterior-Posterior
- Transverse
- Thyroid Nodule 3
- Long
- Anterior-Posterior
- Transverse
- Thyroid Nodule 4
- Long
- Anterior-Posterior
- Transverse
- Thyroid Nodule 5
- Long
- Anterior-Posterior
- Transverse
- Thyroid Nodule 6
- Long

- Anterior-Posterior
- Transverse
- Thyroid Nodule 7
- Long
- Anterior-Posterior
- Transverse
- Thyroid Nodule 8
- Long
- Anterior-Posterior
- Transverse
- Thyroid Nodule 9
- Long
- Anterior-Posterior
- Transverse
- Thyroid Nodule 10
- Long
- Anterior-Posterior
- Transverse
- THY Nodule1 Strain Ratio
- A
- B
- THY Nodule2 Strain Ratio
- A
- B
- THY Nodule3 Strain Ratio
- A
- B
- THY Nodule1 Elas. Ratio
- A
- B
- THY Nodule2 Elas. Ratio
- A
- B
- THY Nodule3 Elas. Ratio
- A
- B
- Breast Mass 1
- L
- H
- W
- Nip. Dist.
- Skin Dist.
- Breast Mass 2
- L

- H
- W
- Nip. Dist.
- Skin Dist.
- Breast Mass 3
- L
- H
- W
- Nip. Dist.
- Skin Dist.
- Breast Mass 4
- L
- H
- W
- Nip. Dist.
- Skin Dist.
- Breast Mass 5
- L
- H
- W
- Nip. Dist.
- Skin Dist.
- Breast Mass 6
- L
- H
- W
- Nip. Dist.
- Skin Dist.
- Breast Mass 7
- L
- H
- W
- Nip. Dist.
- Skin Dist.
- Breast Mass 8
- L
- H
- W
- Nip. Dist.
- Skin Dist.
- Breast Mass 9
- L
- H
- W

- Nip. Dist.
- Skin Dist.
- Breast Mass 10
- L
- H
- W
- Nip. Dist.
- Skin Dist.
- Breast Mass1 Strain Ratio
- A
- B
- Breast Mass1 Elas. Ratio
- A
- B
- Breast Mass2 Strain Ratio
- A
- B
- Breast Mass2 Elas. Ratio
- A
- B
- Breast Mass3 Strain Ratio
- A
- B
- Breast Mass3 Elas. Ratio
- A
- B
- Breast Mass4 Strain Ratio
- A
- B
- Breast Mass4 Elas. Ratio
- A
- B
- Breast Mass5 Strain Ratio
- A
- B
- Breast Mass5 Elas. Ratio
- A
- B
- Breast Mass6 Strain Ratio
- A
- B
- Breast Mass6 Elas. Ratio
- A
- B

- Breast Mass7 Strain Ratio
- A
- B
- Breast Mass7 Elas. Ratio
- A
- B
- Breast Mass8 Strain Ratio
- A
- B
- Breast Mass8 Elas. Ratio
- A
- B
- Breast Mass9 Strain Ratio
- A
- B
- Breast Mass9 Elas. Ratio
- A
- B
- Breast Mass10 Strain Ratio
- A
- B
- Breast Mass10 Elas. Ratio
- A
- B
- Testis
- Testicular L
- Testicular H
- Testicular W
- Testis Mass 1
- d1
- d2
- d3
- Testis Mass 2
- d1
- d2
- d3
- Testis Mass 3
- d1
- d2
- d3
- Epididymis
- Epididymis L
- Epididymis H
- Epididymis W

- Testicle(Superior)
 - H
 - W
- Testicle(Mid)
 - H
 - W
- Testicle(Inferior)
 - H
 - W
- Epididymal Head
 - L
 - H
 - W
- Epididymal Body
 - L
 - H
 - W
- Epididymal Tail
 - L
 - H
 - W
 -
- M-Mode
 -
- D-Mode
 - STA
 - ITA
 - Isthmus
 - Parathyroid 1
 - Parathyroid 2
 - Testis A
 - Testis V
 - Testis V(Valsalva)
 - Epididymis A
 - Epididymis V
- Emergency
 - B-Mode
 - Renal L
 - Renal H
 - Renal W
 - CBD
 - Portal V Diam
 - CHD
 - GB wall th

- Aorta Bif
- Ureter
- Pre-BL L
- Pre-BL H
- Pre-BL W
- Post-BL L
- Post-BL H
- Post-BL W
- GS
- YS L
- CRL
- BPD
- UT L
- UT H
- UT W
- Endo
- Ovary L
- Ovary H
- Ovary W
- -----
- Renal Vol
- Pre-BL Vol
- Post-BL Vol
- Mictur.Vol
- Ovary Vol
- UT Vol
- UT SUM
- -----
- Uterus
- UT L
- UT H
- UT W
- Endo
- Ovary
- Ovary L
- Ovary H
- Ovary W
- Kidney
- Renal L
- Renal H
- Renal W
- Cortex
- Bladder
- Pre-BL L

- Pre-BL H
- Pre-BL W
- Post-BL L
- Post-BL H
- Post-BL W

-

M-Mode

- FHR (M)

-

D-Mode

- FHR (Doppler)

- Orthopedic

B-Mode

- HIP
- HIP(α)
- HIP(β)
- d/D

-

M-Mode

-

D-Mode

6.4 IMT

- Intima-Media Thickness Measurement
- Automatic detection of IMT when ROI is set
- Support CCA, ICA, ECA, Bulb IMT
- Near wall and far wall detection
- Angle selectable

6.5 IVF

- The uterus and follicle growth curve can be displayed in the IVF report.
- Data of IVF history exams can be checked in the IVF report.

6.6 Smart OB™

- Auto measurement for OB, a special tool for easy OB scan, and greatly reduce time and increase productivity
- Support BPD, HC, OFD, FL, AC
- Better get GA before start auto AC
- Measurement result can be modified by user

6.7 Smart NT™

- NT auto measurement
- Auto detection of NT inside ROI

6.8 Smart HIP

HIP auto measurement

6.9 Smart Trace

Measures the lengths of major axis and minor axis, area and circumference of a closed region on the image semi-automatically

6.10 Smart Caliper

Measures lengths of the major axis and the minor axis semi-automatically

6.11 CPP

Measures the pixel proportion of blood flow signal in the region of interest

6.12 Smart HRI

Auto measurement method for Hepatorenal Index (HRI)

6.13 Report

- Specific report template by

application

- Editable value in report
- Images selectable
- Anatomy information for vascular and OB report
- Editing through iReport
 - User-defined report template
 - Selecting report modules
 - Adding/removing measurement items from the report
 - Changing report layout
- Load/save comment
- Viewing history reports
- Preview and printing reports
- Able to Export as PDF/RTF file
- V-Mapping
 - Add anatomical graphics for illustration
- Mini report
 - Quickly displaying Mini report in the thumbnail area of the main screen

- Including both general measurement and application measurement results
- Support deleting measurement results

6.14 iWorks™

- Auto workflow protocol
- Templates are user configurable
- Functions: pause, stop, replace, repeat, skip, insert single step, return and continue, steps in thumbnail, iNSert™ another template
- iWorks setup mode: B; B/B (Dual Live); Dual B/B; Color; B/Color (Dual Live); Power; B/Power (Dual Live); B + PW; Color + PW; Power + PW; B + CW; Color + CW; B+M; B+TVI; TVI+TVD; iScape.
- iWorks setup annotation: support up to 2 annotations, location and font size are configurable.

- iWorks setup bodymark: select existing library, and transducer indicator is pre-settable
- iWorks setup measurement: select existing measurement library
- Template import and export are available
- Support create user-defined iWorks protocol

6.15 UltraView™

- Components:
 - DICOM Basic
 - DICOM Query/Retrieve
 - DICOM OB/GYN SR
 - DICOM Cardiac SR
 - DICOM Vascular SR
 - DICOM Breast SR
 - DICOM Urology SR
 - DICOM Pediatric SR
 - DICOM Small Parts SR
 - DICOM Abdomen SR
 - TDI QA

- Contrast Imaging QA
- Tissue Tracking QA
- Stress Echo
- SCV (Slice Contrast View)
- Niche
- iLive
- iPage+
- IVF
- Ultrasound Fusion Imaging
- Auto EF
- Smart Planes CNS
- PC-based off-line software
- iStation™ workstation dedicated for patient exam management
- Patient exam query/retrieve
- Support review of current and past exam
- New exam, Activate exam, Continue exam functions, End exam are available
- Support measurements and calculations on archived exam and images
- Export images in BMP/JPG/TIFF/DCM/AVI/MP4 format
- Support backup/send to USB devices, DVD-RW, CD-R, DVD+R, DVD-R, DVD+RW media

*Not all measurements are listed in this part; For more detailed information please refer to User Manual

7 Exam Storage and Management

7.1 Exam storage

- 1TB hard drive
- 128G SSD (Solid State Drive)
- Direct digital storage of single frame and cine 2D, color and Doppler.

7.2 Exam management

8 Connectivity

8.1 Ethernet Network Connection

- Cable connection
- Wireless connection: built-in wireless adapter

8.2 DICOM 3.0

- DICOM basic
 - Verify (SCU, SCP)
 - Print
 - Store
 - Storage Commitment
 - Media Exchange
- DICOM Worklist
- DICOM Query/Retrieve
- DICOM Modality Performed Procedure Step - MPPS
- DICOM OB/GYN structure report
- DICOM Cardiac structure report
- DICOM Vascular structure report
- DICOM Breast Report
- DICOM Abdominal structure report
- DICOM Small Parts structure report

8.3 iStorage (included in UltraAssist)

Direct network storage tool
between ultrasound system and
personal computer

8.4 MedSight

- An interactive app that lets you transfer clinical images straight from Mindray Ultrasound system to a smart device, such as mobile phone or tablet PC
- Needs to be installed on mobile terminal
- Transfer images or clips from system to mobile terminal through Wi-Fi
- Support both iOS (7.0 and above) and Android (4.0 and above) system
 - For iOS powered smart device: DICOM is mandatory
 - For Android powered smart device: DICOM not necessary

8.5 MedTouch

- Connect Ultrasound machine to smart devices based on Android and iOS system, such as tablet PC or mobile phone. Remote control of Ultrasound machine, review of

- patient information, and tutorial
- software iScanHelper study on
- smart devices
- Support Android and iOS powered smart devices
 - Android 4.0 and above
 - iOS 7.0 and above
 - DICOM not necessary
- B-mode Frequencies: 1.2~3.8, 1.7~5.2, 2.0~6.0MHz
- Harmonic Frequencies: 4.0, 5.0, 6.0 MHz
- Color Frequencies: 2.0, 2.5, 3.0, 3.3 (HR Flow) MHz
- PW Frequencies: 2.0, 2.5, 3.0 MHz
- Biopsy Guide: NGB-022, multi angle, reusable; LPUBKG60 (disposable)

9 Transducers

9.1 Curved array

- SC6-1s
 - Application: Obstetrics, Gynecology, Abdomen, Small Parts, Musculo-skeletal, Vascular, Urology, Nerve
 - Bandwidth: 1.2-6.0MHz
 - Number of Elements:192
 - FOV (max): 60°
 - Extended FOV: 72°
 - Convex Radius: 60mm
 - Depth: 4-40cm
 - Physical Footprint: 65.1mm × 16.4mm
 - Footprint: 64.9mm × 16.2mm
- C11-3s
 - Application: Abdomen, Vascular, Cardiac, Small Parts, Pediatric, Cephalic
 - Bandwidth: 2.6-12.8MHz
 - Number of Elements:128
 - FOV (max): 101°
 - Extended FOV: 113°
 - Convex Radius: 15mm
 - Depth: 1.5-35cm
 - Physical Footprint: 32.8mm× 25mm
 - Footprint: 27.4mm × 8.4mm
 - B-mode Frequencies: 2.6~6.5,

- | | |
|--|---|
| 3.2~7.9, 4.7~12.8 MHz | MHz |
| - Harmonic Frequencies: 6.0, 7.0, 8.0 MHz | - Color Frequencies: 2.0, 2.5, 3.0, 3.5(HR Flow) MHz |
| - Color Frequencies: 4.4, 5.0, 5.7, 5.0 (HR Flow) MHz | - PW Frequencies: 2.0, 2.5, 3.0 MHz |
| - PW Frequencies: 4.4, 5.0, 5.7 MHz | - Biopsy Guide: NGB-024, multi angle, reusable; LPUBKG81 (disposable) |
| - Biopsy Guide: NGB-018, multi angle, reusable | <ul style="list-style-type: none"> • V11-3Hs |
| <ul style="list-style-type: none"> • C6-2Gs | - Application: Obstetrics, Gynecology, Urology |
| - Application: Obstetrics, Gynecology, Abdomen, Urology | - Bandwidth: 3.0-11.0MHz |
| - Bandwidth: 1.2-6.0MHz | - Number of Elements:192 |
| - Number of Elements:128 | - FOV (max): 170° |
| - FOV (max): 94° | - Extended FOV: 210° |
| - Extended FOV: 106° | - Convex Radius: 11mm |
| - Convex Radius: 20mm | - Depth: 1.5-28cm |
| - Depth: 4-40cm | - Physical Footprint: 24.9mm× 21.8mm |
| - Physical Footprint: 37.6mm × 19mm | - Footprint: 24mm × 9mm |
| - Footprint: 31.5mm × 11.2mm | - B-mode Frequencies: 3.0~7.0, 4.0~9.0, 5.0~11.0 MHz |
| - B-mode Frequencies: 1.2~3.8, 1.7~5.2, 2.0~6.0MHz | - Harmonic Frequencies: 8.0, 9.0, 10.0 MHz |
| - Harmonic Frequencies: 3.2, 4.0, 5.0 | - Color Frequencies: 4.4, 5.0, 5.7, 5.5(HR |

- Flow) MHz
- PW Frequencies: 4.5, 5.0, 5.5 MHz
- Biopsy Guide: NGB-025, single angle, reusable
- SC8-2s
- Application: Obstetrics, Gynecology, Abdomen, Urology, Vascular
- Bandwidth: 1.8 - 8.2 MHz
- Number of Elements:192
- FOV (max): 76°
- Extended FOV: 88°
- Convex Radius: 40mm
- Depth: 4-40cm
- Physical Footprint: 26.3mm× 66.9mm
- Footprint: 15mm × 52mm
- B-mode Frequencies: 1.8~5.4, 2.3~6.8, 2.8~8.2 MHz
- Harmonic Frequencies: 4.0, 5.5, 6.0 MHz
- Color Frequencies: 3.0, 3.5, 4.0, 3.5(HR Flow) MHz
- PW Frequencies: 3.0, 3.5, 3.8 MHz
- Biopsy Guide: NGB-029, multi angle, reusable
- 9.2 Volume curved array
- SD8-1s
- Application: Obstetrics, Gynecology, Abdomen
- Bandwidth: 1.8-8.2 MHz
- Number of Elements: 192
- FOV (max): 66°
- Extended FOV: 91°
- Volume Sweep Angle (max): 85°
- Convex Radius: 45mm
- Depth: 4-40cm
- Physical Footprint: 75.7mm × 52.6mm
- B-mode Frequencies: 1.8-5.4, 2.3-6.8, 2.8-8.2 MHz
- Harmonic Frequencies: 4.0, 5.0, 5.5, 6.0 MHz
- Color Frequencies: 3.0, 3.5, 4.0, 3.5(HR Flow) MHz
- PW Frequencies: 3.0, 3.5, 3.8 MHz
- Biopsy Guide: NGB-039, multi angle,

- reusable
- DE11-3Ws
- Application: Obstetrics, Gynecology, Urology
- Bandwidth: 2.0-9.0 MHz
- Number of Elements: 192
- FOV (max): 162°
- Extended FOV: 187°
- Volume Sweep Angle (max): 120°
- Convex Radius: 10mm
- Depth: 4-40cm
- Physical Footprint: 24 mm x 24mm
- B-mode Frequencies: 2.0~6.0, 2.8~8.2, 3.0~9.0 MHz
- Harmonic Frequencies: 4.0, 5.0, 6.0 MHz
- Color Frequencies: 4.4, 5.0, 5.7, 5.0(HR Flow) MHz
- PW Frequencies: 4.4, 5.0, 5.7 MHz
- Biopsy Guide: NGB-047, single angle, reusable

9.3 Linear

- L9-3s
- Application: Abdomen, Pediatric, Small Parts, Musculo-skeletal, Vascular, Nerve, Obstetrics
- Bandwidth: 2.5-9.0MHz
- Number of Elements: 192
- Field of View (max): 43.7mm
- Extended FOV: 60° (OB1, NT); 40°(Others)
- Steered Angle:
 - B: 0°, +/−6°, +/−12°;
 - C/PW: −30°-30°
- Depth:1.5-35cm
- Physical Footprint: 62mm × 22mm
- Footprint: 48mm × 11mm
- B-mode Frequencies: 2.5~7.0, 3.4~8.2, 3.6~9.0 MHz
- Harmonic Frequencies: 5.0, 6.0, 7.0 MHz
- Color Frequencies: 3.0, 3.6, 5.0, 4.0(HR Flow) MHz
- PW Frequencies: 3.0, 3.6, 5.0 MHz

- Biopsy Guide: NGB-034, multi angle, reusable
- L20-5s
 - Application: Abdomen, Small Parts, Musculo-skeletal, Vascular, Nerve
 - Bandwidth: 6-23MHz
 - Number of Elements: 192
 - Field of View (max): 28.5mm
 - Extended FOV: 20°
 - Steered Angle:
 - B: 0, +/-6°, +/-12°;
 - C/PW: -20°-20°
 - Depth: 1.5-29cm
 - Physical Footprint: 42.23mm × 22.10mm
 - Footprint: 31.5mm × 4.5mm
 - B-mode Frequencies: 6.0~13.0, 9.0~16.6, 12.5~23.0 MHz
 - Harmonic Frequencies: 14.0, 16.0, 18.0 MHz
 - Color Frequencies: 9.0, 11.0, 13.0, 13.0(HR Flow) MHz
- L14-3Ws
 - PW Frequencies: 8.3, 10.0, 12.5 MHz
 - Biopsy Guide: not available
 - Application: Small Parts, Musculo-skeletal, Vascular, Abdomen, Pediatric, Thoracic/Pleural
 - Bandwidth: 3.0-14.0MHz
 - Number of Elements: 256
 - Field of View (max): 50.8mm
 - Extended FOV: 20°
 - Steered Angle:
 - B: 0, +/-6°, +/-12°;
 - C/PW: -30°-30°
 - Depth: 1.5-35cm
 - Physical Footprint: 66.8mm × 25.5mm
 - Footprint: 55.5mm × 8.2mm
 - B-mode Frequencies: 3.0~9.0, 5.0~12.0, 6.0~14.0 MHz
 - Harmonic Frequencies: 10.0, 11.0, 12.0, 13.0 MHz
 - Color Frequencies: 5.0, 6.2, 7.2, 8.3(HR flow) MHz

- PW Frequencies: 5.0, 6.2, 7.2 MHz

- Biopsy Guide: NGB-054, multi angle/depth, reusable

9.4 Phased array

- P7-3Ts

- Application: Cardiac

- Bandwidth: 2.3-7.2MHz

- Number of Elements: 64

- Field of View (max): 90°

- Extended FOV: 90°

- Depth: 2.0-38.0cm

- Physical Footprint: 14mm × 12mm

- Footprint: 12.2mm × 12.2mm

- B-mode Frequencies: 2.3~5.4, 2.8~6.4, 3.3~7.2 MHz

- Harmonic Frequencies: 5.0, 6.0, 7.0 MHz

- Color Frequencies: 2.7, 3.3, 4.0, 4.0(HR Flow) MHz; TDI: 5.0, 6.2 MHz

- PW Frequencies: 2.7, 3.3, 4.0 MHz

- Biopsy Guide: not available

- SP5-1s

- Application: Abdomen, Cardiac, Vascular, Cephalic, Thoracic/Pleural

- Bandwidth: 1.5 - 4.5MHz

- Number of Elements: 80

- Field of View (max): 90°

- Extended FOV: 90°

- Depth: 2-38cm

- Physical Footprint: 38.2mm × 30.5mm

- Footprint: 23.4mm × 15.2mm

- B-mode Frequencies: 1.5~2.5, 2.5~3.5, 3.5~4.5 MHz

- Harmonic Frequencies: 3.0, 3.5, 3.5, 4.0, 4.0MHz

- Color Frequencies: 2.0, 2.3, 2.5, 2.5(HR Flow) MHz; TDI: 3.0, 3.8 MHz

- PW Frequencies: 2.0, 2.3, 2.5 MHz; TDI: 2.5, 4.0 MHz

- CW Frequencies: 2.0 MHz

- Biopsy Guide: NGB-011, multi angle, reusable

9.5 Bi-Plane

- ELC13-4s (Convex & Linear)

- Application: Urology
 - Linear: 71.4mm × 9mm
 - Bandwidth:
 - Convex: 3.5-9.5 MHz
 - Linear: 4.8-11.0MHz
 - Number of Elements: 192
 - Field of View (max):
 - Convex: 177°
 - Linear: 64.8mm
 - Extended FOV: 217° (Convex);
40°(Linear)
 - Convex Radius: 10mm (Convex)
 - Depth:
 - Convex: 1.5-28cm
 - Linear: 1.5-35cm
 - Steered Angle (Linear):
 - B: 0, +/-6°, +/-12°
 - C/PW: -15°-15°
 - Physical Footprint:
 - Convex: 20mm × 20mm
 - Linear: 19.5mm × 19.5mm
 - Footprint:
 - Convex: 20mm × 9mm
 - B-mode Frequencies:
 - Convex: 3.5~6.0, 4.5~7.5, 5.5~8.8, 6.5~9.5 MHz
 - Linear: 4.8~7.8, 5.3~9.0, 5.8~10.0, 7.0~11.0 MHz
 - Harmonic Frequencies:
 - Convex: 8.0, 9.0, 10.0 MHz
 - Linear: 10.0, 11.0, 12.0 MHz
 - Color Frequencies:
 - Convex: 4.4, 5.0, 5.2, 5.5(HR Flow) MHz
 - Linear: 6.0, 7.2, 8.3, 9.0(HR Flow) MHz
 - PW Frequencies:
 - Convex: 4.5, 5.0, 5.5 MHz
 - Linear: 5.0, 6.3, 7.1, 8.3 MHz
 - Biopsy Guide: NGB-051, multi depth, reusable
- 9.6 Pencil
- CW5s
 - Application: Vascular, Cephalic, Pediatric

- Number of Elements: 2
- Biopsy Guide: not available
- CW2s
- Application: Cardiac, Cephalic, Pediatric
- Number of Elements: 2
- Biopsy Guide: not available
- Temperature with 4 levels: off/34°C/37°C/40°C, with deviation of $\pm 1^{\circ}\text{C}$
- Light indicator for temperature protecting
- Dimension: 82(D)*78(W)*119(H) mm
- Weight: approx. 240g (net)
- Continuous operation time: >12h

10 Peripheral Devices and Accessories

10.1 Black/white video printer

- Digital
MITSUBISHI P95DW-N
- Analog
SONY UP-X898MD

10.2 Color digital printer

SONY UP-D25MD

10.3 Graph/text printer

HP OFFICEJET PRO 8100

10.4 Gel warmer

- Support gel warming with 3 angle position: 15, 55, 90 degrees
- Easily be disassembled off system for cleaning

10.5 Footswitch

- USB port: FS-81-SP-2(single pedal), 971-SWNOM (2/3-pedal)
- Support User-definable functions (Freeze, Save, Print)

10.6 ECG

- 6-pin, AHA/IEC, for 3-lead wires
- ECG wave display: on/off
- ECG source: Lead/External
- Position: 0~100%, 5%/step
- Trig mode: off/single/dual/timer
- Gain: 0-30, 1/step
- Sweep speed: 6 steps
- Invert: on/off

10.7 PCG (not for sale in EU countries)

- PCG wave display: on/off
- Gain: 0-30, 1/step
- Speed: 6 steps
- Smooth: 1-4, 1/step

10.8 Barcode reader

- SYMBOL LS2208 (1D)
- SYMBOL DS4308 (2D)

10.9 Built-in Wi-Fi 5 Wireless adapter

- Encryption: WPA, WPA2
- Max transfer speed: 300Mbps
- Protocols: IEEE 802.11 ac/a/b/g/n
- Frequency: 2.4G/5G

10.10 iVocal Microphone

- SAMSON XPD2

10.11 Built-in Battery

- Replaceable and rechargeable lithium battery
- Full battery lasts for more than 24h in standby mode
- Battery capacity indicators without powering on the system

- Battery fully-recharged time: less than 6h
- Continuous scanning time: more than 120 mins for 2H battery or 240 mins for 4H battery.

10.12 Probe adapter

- PCM-ES01: transforming E socket to S socket, only for SC6-1E, SD8-1E, P7-3TE, and SP5-1E
- PCM-US01: transforming U socket to S socket, only for P7-3TU and SP5-1U

11 System Inputs and Outputs

11.1 Audio input/output

- Microphone/Audio: 1 port

11.2 Video output

- S-Video out: 1 port, PAL/NTSC
- HDMI: 1 Port
- VGA out: 1 port

11.3 Physio input

- Support ECG/PCG signal
- ECG: 1 port

- PCG: 1 port

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11.4 Other input/output

- USB: 6 ports (5 USB 3.0 and 1 Type-C)
- Ethernet: 1 port

NOTICE:

Not all features or specifications described in this document may be available in all transducers and/or modes.

Mindray reserves the right to make changes in specifications and features shown herein, or discontinue the product at any time without notice or obligation.

Contact Mindray Representative for the most current information.

12 Safety and Conformance

12.1 Quality standards

- ISO 9001
- ISO 13485

12.2 Design standards

- EN 60601-1 and IEC 60601-1
- EN 60601-1-2 and IEC 60601-1-2
- EN 60601-1-6 and IEC 60601-1-6
- EN 60601-2-37 and IEC 60601-2-37
- EN 62304 and IEC 62304
- EN 62366 and IEC 62366
- EN ISO 17664 and ISO 17664

12.3 CE declaration

The ultrasound system is fully in conformance with the Council Directive 93/42/EEC Concerning Medical Devices. The number adjacent to the CE marking (0123) is the code of the EU-notified body that certified meeting the requirements of Annex II excluding